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<td>5</td>
<td>15129</td>
<td>A Practical Guide to Graphical Statics</td>
<td>Mechanics Division</td>
<td>Poster Session</td>
<td>Allen T. Halbmaier</td>
<td>Louisiana State University</td>
<td><a href="mailto:halbmaier@lsu.edu">halbmaier@lsu.edu</a></td>
<td>T333</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
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<td>15307</td>
<td>Improving Scientific Writing Capability in an Undergraduate Population using a Fading Scaffold Approach</td>
<td>Biomedical Division</td>
<td>Poster Session</td>
<td>Amrita Lander</td>
<td>University of Delaware</td>
<td><a href="mailto:ablader@udel.edu">ablader@udel.edu</a></td>
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<td>16104</td>
<td>Informal Learning in Engineering</td>
<td>Engineering Ethics Division</td>
<td>Poster Session</td>
<td>J TED</td>
<td>University of Texas</td>
<td><a href="mailto:jteedy@utexas.edu">jteedy@utexas.edu</a></td>
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<td>14296</td>
<td>Using the Engineering and Science Issues Tool (ESIT) for Ethics Instruction</td>
<td>Engineering Ethics Division</td>
<td>Poster Session</td>
<td>Ali V. McCormick</td>
<td>University of Minnesota, Twin Cities</td>
<td><a href="mailto:mccormick@umn.edu">mccormick@umn.edu</a></td>
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<td>Improving Teaching, Research, and Communication Courses for First-Year Engineering Students</td>
<td>Biomedical Division</td>
<td>Poster Session</td>
<td>Anne R. White</td>
<td>Arizona State University, Polytechnic campus</td>
<td><a href="mailto:annrwhite@asu.edu">annrwhite@asu.edu</a></td>
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<td>15877</td>
<td>Teaching First-Year Engineering Design Using A Flipped Classroom Model</td>
<td>Electrical and Computer Division</td>
<td>Poster Session</td>
<td>Andrew O. Killion</td>
<td>Western Washington University</td>
<td><a href="mailto:akillion@wwu.edu">akillion@wwu.edu</a></td>
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<td>Industrial Networking through Academic Cooperation</td>
<td>International Division</td>
<td>Poster Session</td>
<td>Anka.Sukristina</td>
<td>Arizona National Research Technological University</td>
<td><a href="mailto:arsuktina@yahoo.com">arsuktina@yahoo.com</a></td>
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<td>Unique Potential and Challenges of Students with ADHD in Engineering Programs</td>
<td>Mechanical Engineering Division</td>
<td>Poster Session</td>
<td>Anish-Ernali Zaghli</td>
<td>University of Connecticut</td>
<td><a href="mailto:zaghli@engr.uconn.edu">zaghli@engr.uconn.edu</a></td>
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<td>Improving Understanding and Student Motivation in Undergraduate Dynamics using Inquiry-Based Learning Modules</td>
<td>Environmental Engineering Division</td>
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<td>Ben D. Radhakrishnan</td>
<td>National University of Science and Technology</td>
<td><a href="mailto:pradhakrishnan@nus.edu">pradhakrishnan@nus.edu</a></td>
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<td>14520</td>
<td>Foundations of Social and ethical Responsibility Among Undergraduate Engineering Students: Project Overview</td>
<td>Biomedical Division</td>
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<td>Brian Paul Buttky</td>
<td>University of Auckland</td>
<td><a href="mailto:buttky@uckland.ac.nz">buttky@uckland.ac.nz</a></td>
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<td>Safety Training on Warehouse Worker Hazards for Structural Steel Workers: Phase 2 Implementation and Assessment</td>
<td>Civil and Environmental Engineering Division</td>
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<td>Carlos Lopez del Puerto</td>
<td>University of Puerto Rico, Manguan Campus</td>
<td><a href="mailto:clpdelpuert@upr.edu">clpdelpuert@upr.edu</a></td>
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<td>5</td>
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<td>Educating Construction Engineering Students through Real World Projects</td>
<td>Construction Division</td>
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<td>Carlos Lopez del Puerto</td>
<td>University of Puerto Rico, Manguan Campus</td>
<td><a href="mailto:clpdelpuert@upr.edu">clpdelpuert@upr.edu</a></td>
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<td>Principles of Engaging Students in Disciplinary Identity at a College-Wide Engineering Outreach Event</td>
<td>Biomedical Division</td>
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<td>Carrie A. Fahnstock</td>
<td>University of Wisconsin, Madison</td>
<td><a href="mailto:cfahnstock@wisc.edu">cfahnstock@wisc.edu</a></td>
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<td>16306</td>
<td>A Practical Guide to Graphical Statics</td>
<td>Mechanics Division</td>
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<td>Casey Allen Holmberg</td>
<td>Purdue University, West Lafayette</td>
<td><a href="mailto:holmberg@purdue.edu">holmberg@purdue.edu</a></td>
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<td>71</td>
<td>A New Approach to Touch Electrical Engineering Using a Para-Electrode Laboratory</td>
<td>Engineering</td>
<td>Poster Session</td>
<td>Jack Bringermaker</td>
<td>NYU Tandon School of Engineering</td>
<td><a href="mailto:jackbr@nyu.edu">jackbr@nyu.edu</a></td>
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<td>Development of Authentic Engineering Problems for Problem-Centered Learning</td>
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<td>Poster Session</td>
<td>Gregory Koppen</td>
<td>Idaho State University</td>
<td><a href="mailto:gkoppen@boisestate.edu">gkoppen@boisestate.edu</a></td>
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<td>Work in Progress: A Scalable Course Project to Accommodate Academic Variation</td>
<td>Engineering</td>
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<td>Howard L. Greene</td>
<td>Ohio State University</td>
<td><a href="mailto:greene.8t@osu.edu">greene.8t@osu.edu</a></td>
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<td>An Approach to Touch Electrical Engineering Using a Para-Electrode Laboratory</td>
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<td>Helen Youngh Jeng</td>
<td>California Baptist University</td>
<td><a href="mailto:jyoungh@calbaptist.edu">jyoungh@calbaptist.edu</a></td>
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<td>Success Factors for Retaining Women in Engineering</td>
<td>Engineering</td>
<td>Poster Session</td>
<td>Hiroshi Kobayashi</td>
<td>University of Wisconsin, Madison</td>
<td><a href="mailto:kobayashi@uwplatt.edu">kobayashi@uwplatt.edu</a></td>
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<td>A New Approach to Touch Electrical Engineering Using a Para-Electrode Laboratory</td>
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<td>Jacqueline Fleming</td>
<td>National Action Council for Women in Engineering</td>
<td><a href="mailto:jfleming@womensnetwork.org">jfleming@womensnetwork.org</a></td>
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<td>Flipping Engineering by Design</td>
<td>Engineering</td>
<td>Poster Session</td>
<td>Jack C. Richard</td>
<td>Texas A&amp;M University</td>
<td><a href="mailto:jrichard@tamu.edu">jrichard@tamu.edu</a></td>
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<td>A New Approach to Touch Electrical Engineering Using a Para-Electrode Laboratory</td>
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<td>Jianjun Hu</td>
<td>Harbin Institute of Technology</td>
<td><a href="mailto:hjhu@hit.edu">hjhu@hit.edu</a></td>
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<td>79</td>
<td>Social and Technical Dimensions of E-learning Identity</td>
<td>Engineering</td>
<td>Poster Session</td>
<td>James Hoff</td>
<td>University of Kentucky</td>
<td><a href="mailto:jhoff@uky.edu">jhoff@uky.edu</a></td>
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<td>Work in Progress: A New Approach to Touch Electrical Engineering Using a Para-Electrode Laboratory</td>
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<td>James P. Abalos</td>
<td>Manhattan College</td>
<td><a href="mailto:jabalos@manhattan.edu">jabalos@manhattan.edu</a></td>
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<td>A New Approach to Touch Electrical Engineering Using a Para-Electrode Laboratory</td>
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<td>Jamesn M. Allred</td>
<td>Pennsylvania State University</td>
<td><a href="mailto:jmallred@psu.edu">jmallred@psu.edu</a></td>
<td>T311</td>
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<td>82</td>
<td>Work in Progress: A New Approach to Touch Electrical Engineering Using a Para-Electrode Laboratory</td>
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<td>James P. Abalos</td>
<td>University of Illinois, Urbana-Champaign</td>
<td><a href="mailto:jbalos@illinois.edu">jbalos@illinois.edu</a></td>
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<td>A New Approach to Touch Electrical Engineering Using a Para-Electrode Laboratory</td>
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<td>Jamesn M. Allred</td>
<td>Pennsylvania State University</td>
<td><a href="mailto:jmallred@psu.edu">jmallred@psu.edu</a></td>
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<td>A New Approach to Touch Electrical Engineering Using a Para-Electrode Laboratory</td>
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<td>Jamesn M. Allred</td>
<td>Texas A&amp;M University</td>
<td><a href="mailto:jbalos@tamu.edu">jbalos@tamu.edu</a></td>
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111 15532 NSF ATE CREATE Renewable Energy Center
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<td>143</td>
<td>16979</td>
<td>Work-in-Progress: Development and Demonstration of Interactive Didactic Modules for Biomedical Engineering: Bridging Fluid Mechanics and Systems Physiology</td>
<td>Biomedical Division</td>
<td>Poster Session</td>
<td>Michael Kornos</td>
<td>Rochester Institute of Technology (RIT)</td>
<td><a href="mailto:mkornos47@rit.edu">mkornos47@rit.edu</a></td>
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<td>Work-in-Progress: Promoting career reflection among freshman BME students</td>
<td>Biomedical Division</td>
<td>Poster Session</td>
<td>Michael B. Cubberly</td>
<td>University of Michigan</td>
<td><a href="mailto:mcbubberly@umich.edu">mcbubberly@umich.edu</a></td>
<td>T313</td>
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<td>147</td>
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<td>Adding Meaningful Context to Robotics Projects (In Progress)</td>
<td>Pre-College Engineering Education Division</td>
<td>Poster Session</td>
<td>Michael Miller</td>
<td>Michigan Technological University</td>
<td><a href="mailto:mhmiller@mtu.edu">mhmiller@mtu.edu</a></td>
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<td>World Energy in Engineering Design</td>
<td>Mechanical Engineering Division</td>
<td>Poster Session</td>
<td>Michele Phofo</td>
<td>University of Massachusetts, Amherst</td>
<td><a href="mailto:michele_phofo@gmail.com">michele_phofo@gmail.com</a></td>
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<td>Work-in-Progress: A Concept Model for Understanding Engineering Student's Metacognitive Development into the Computer Science Curriculum</td>
<td>NSF Grantees Poster Session</td>
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<td>Peter Turner</td>
<td>Clarkson University</td>
<td><a href="mailto:pturner@clarkson.edu">pturner@clarkson.edu</a></td>
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<td>148</td>
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<td>Work-in-Progress: Evaluation of the Concept Model for Understanding Engineering Student's Metacognitive Development into the Computer Science Curriculum</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Peter M. Osterberg</td>
<td>University of Portland</td>
<td><a href="mailto:oster@up.edu">oster@up.edu</a></td>
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<td>Use of Drone for a Campus Building Evaluation</td>
<td>Engineering Technology Division</td>
<td>Poster Session</td>
<td>Mohammad Ali Ullah</td>
<td>East Tennessee State University</td>
<td><a href="mailto:addull@etsu.edu">addull@etsu.edu</a></td>
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<td>151</td>
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<td>Effects of Readiness Initiatives on Mechanical Engineering Retention and Success</td>
<td>Mechanical/Engineering Division</td>
<td>Poster Session</td>
<td>Minnaha Rukacke</td>
<td>The Citadel</td>
<td><a href="mailto:rhukacke@citadel.edu">rhukacke@citadel.edu</a></td>
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<td>Using a Novel Gravity Model for Ranking and Assessment of Educational Games</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Milton Abbe</td>
<td>Virginia Tech</td>
<td><a href="mailto:abbe@vt.edu">abbe@vt.edu</a></td>
<td>T328</td>
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<td>154</td>
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<td>A Statistical Approach for Analyzing a Breakthrough in Thermodynamics as a Year 3 Experiment</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Hannah Z. Low</td>
<td>Central Connecticut State University</td>
<td><a href="mailto:hzlow@ccsu.edu">hzlow@ccsu.edu</a></td>
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<td>157</td>
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<td>STEM Outreach: Capitalizing on Dissemination of Work in Progress</td>
<td>Pre-College Engineering Division</td>
<td>Poster Session</td>
<td>Nicholas Robert Hamlet</td>
<td>Rochester Institute of Mines</td>
<td><a href="mailto:rosehb@mines.edu">rosehb@mines.edu</a></td>
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<td>Developing Students' Understanding of Engineering Concepts through Their Sketches</td>
<td>NSF Grantees Poster Session</td>
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<td>Jonas Johnson</td>
<td>Rochester Institute of Mines</td>
<td><a href="mailto:rosehb@mines.edu">rosehb@mines.edu</a></td>
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<td>160</td>
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<td>Beginning to Understand and Foster Students' Metacognitive Development</td>
<td>NSF Grantees Poster Session</td>
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<td>Patrick Cunningham</td>
<td>Rose-Hulman Institute of Technology</td>
<td><a href="mailto:rosehulman@rose-hulman.edu">rosehulman@rose-hulman.edu</a></td>
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<td>Using Time More Efficiently: Converting an Interview to a Survey</td>
<td>Chemical Engineering Division</td>
<td>Poster Session</td>
<td>Paul G. Geller</td>
<td>Washington State University</td>
<td><a href="mailto:pge@washington.edu">pge@washington.edu</a></td>
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<td>162</td>
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<td>Successes and Challenges in Implementation and Running of the First MSE-Practice Class in the 2nd Undergraduate Year as Part of a Complex, Redefined Curriculum</td>
<td>Mechanical/Engineering Division</td>
<td>Poster Session</td>
<td>Paul J. van Surante</td>
<td>Michigan Technological University</td>
<td><a href="mailto:paulvs@mtu.edu">paulvs@mtu.edu</a></td>
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<td>Water in Progress: The Missing Piece to the MSE Degree of the Future: The Ability to Scale Down to Scale Up</td>
<td>NSF Grantees Poster Session</td>
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<td>Pedro Antunes Espinosa</td>
<td>University of Texas, El Paso</td>
<td><a href="mailto:pedro@epuep.edu">pedro@epuep.edu</a></td>
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<td>Teaching Electronic Computation Principles: Undergraduate Electrical Engineering Students Developing Computer Science “in-the-Box” Approach</td>
<td>NSF Grantees Poster Session</td>
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<td>Peter M. Osterberg</td>
<td>University of Portland</td>
<td><a href="mailto:pster@usp.edu">pster@usp.edu</a></td>
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<td>Modeling the Curriculum</td>
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<td>Peter Turner</td>
<td>Clarkson University</td>
<td><a href="mailto:mauer@clarkson.edu">mauer@clarkson.edu</a></td>
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<td>Work-in-Progress: Computational Modules for the MATLAB Undergraduate Curriculum</td>
<td>NSF Grantees Poster Session</td>
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<td>Rachael Alexandra Arneson</td>
<td>University of Illinois, Urbana-Champaign</td>
<td><a href="mailto:ranesontb.2@illinois.edu">ranesontb.2@illinois.edu</a></td>
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<td>Building a Model of Cognitive Style using Quality Metrics</td>
<td>Design in Engineering Division</td>
<td>Poster Session</td>
<td>Rafael Souza</td>
<td>Rochester Institute of Technology (RIT)</td>
<td><a href="mailto:rsm150@rit.edu">rsm150@rit.edu</a></td>
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<td>Teaching Design of Experiments to the First-Year Electrical Engineering Students</td>
<td>Electrical and Computer Engineering Division</td>
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<td>Alexandra H. Ray</td>
<td>Rochester Institute of Technology (RIT)</td>
<td><a href="mailto:rsm150@rit.edu">rsm150@rit.edu</a></td>
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<td>Development of a 2D Printer Selection Engine</td>
<td>Engineering Technology Division</td>
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<td>Robert A. Chen</td>
<td>East Carolina University</td>
<td><a href="mailto:rchen@ecu.edu">rchen@ecu.edu</a></td>
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<td>Circuits Course</td>
<td>Division Experimentation &amp; Lab-Oriented Studies</td>
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<td>Ronald D. Williams</td>
<td>University of Virginia</td>
<td><a href="mailto:rdwilliams@virginia.edu">rdwilliams@virginia.edu</a></td>
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<td>Designing a Blended Learning Experience to Teach Creative Practice</td>
<td>Design in Engineering Education Division</td>
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<td>Ronie Ship</td>
<td>Stanford University</td>
<td><a href="mailto:rshi@stanford.edu">rshi@stanford.edu</a></td>
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<td>Bridges to STEM Careers: Hands-on Students - Activities</td>
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<td>Sajid Umar</td>
<td>University of Houston, Clear Lake</td>
<td><a href="mailto:susummar@uh.edu">susummar@uh.edu</a></td>
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<td>Pre-College Science and Engineering for Inner-City, Middle School Students</td>
<td>Pre-College Engineering Education Division</td>
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<td>Gabe Li-EnOo Rosado-Lewis</td>
<td>University of Illinois, Urbana-Champaign</td>
<td><a href="mailto:rossado2@illinois.edu">rossado2@illinois.edu</a></td>
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<td>Pre-Reading the Environment all the Time to Enhance Learning</td>
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<td>Sam Kelly-Quaas</td>
<td>University of Illinois, Urbana-Champaign</td>
<td><a href="mailto:ska@illinois.edu">ska@illinois.edu</a></td>
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<td>Understanding Engineering Student's Prospective Major: A longitudinal Mixed Methods Study</td>
<td>NSF Grantees Poster Session</td>
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<td>Samantha Ruth</td>
<td>Arizona State University, Polytechnic campus</td>
<td><a href="mailto:sphuntine@gmail.com">sphuntine@gmail.com</a></td>
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<td>Preparing Undergraduate Engineering Students for the Internet of Things</td>
<td>Electrical and Computer Engineering Division</td>
<td>Poster Session</td>
<td>Samuel J. Dickerson</td>
<td>University of Pittsburgh</td>
<td><a href="mailto:rdickerson@pitt.edu">rdickerson@pitt.edu</a></td>
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<td>Investigating the Role of Knowledge, Attitudes, and Intentions for Enrollments in Engineering among Underrepresented Minority Students</td>
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<td>Satanta Lucas Oka</td>
<td>University of North Carolina, Charlotte</td>
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<td>Bridging Courses: Unmet Critical Needs to Captivate Design (Work in Progress)</td>
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<td>Poster Session</td>
<td>Sarah Hinkinspur Humes</td>
<td>University of Delaware</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>180</td>
<td>Thinking big and small: An approach to engineering physics as a major</td>
<td>Engineering Physics &amp; Physics Division</td>
<td>Poster Session</td>
<td>Scott Kirkpatrick</td>
<td>Rose-Hulman Institute of Technology</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>181</td>
<td>REIT in Functional Materials</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Scott W Campbell</td>
<td>University of South Florida</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>182</td>
<td>Attaching Learning Models for First Digital System Design Course in ECE Program</td>
<td>Electrical and Computer Engineering Division</td>
<td>Poster Session</td>
<td>Emanuel Haynes</td>
<td>Indiana University-Purdue University, Indianapolis</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<tr>
<td>183</td>
<td>Teaching Large Computer Science Classes</td>
<td>Design in Engineering Education Division</td>
<td>Poster Session</td>
<td>Bhairav Shrinivasan</td>
<td>University of Southern California</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>184</td>
<td>Bill Gates Needed for Industrial Automation Careers</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Zheng-jen Hsu</td>
<td>Texas A&amp;M University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>185</td>
<td>Teaching Practices Inventory for Engineering Education</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Zheng-jen Hsu</td>
<td>Texas A&amp;M University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>186</td>
<td>Design and Evaluation of Sensor Module for Portable Programmable Logic Controller (PLC)</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Steven J. Burtis</td>
<td>University of Utah</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>187</td>
<td>Bridging Coursework and Critical Community of Practice to Promote LGBTQ Equality in Engineering</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Stephanie Farrell</td>
<td>Rowan University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>188</td>
<td>Targeted Recruiting and Home Institution Mentor Model for RLC Sites</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Stephanie George</td>
<td>East Carolina University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<tr>
<td>189</td>
<td>Work in Progress: Pre-college Engineering with Virtual Circuits</td>
<td>Pre-college Engineering Education Division</td>
<td>Poster Session</td>
<td>Steve E. Watkins</td>
<td>Missouri University of Science &amp; Technology</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>190</td>
<td>Student Proposals for Design Projects to Address Children with Severe Disabilities</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Steve Warren</td>
<td>Kansas State University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>191</td>
<td>Applying the EEC200 Teaching Model in a Flipped Classroom Environment</td>
<td>Civil Engineering Division</td>
<td>Poster Session</td>
<td>Steven C Hart</td>
<td>Virginia Military Institute</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>192</td>
<td>Developing Global Learning Outcomes in a Civil Engineering Program</td>
<td>Civil Engineering Division</td>
<td>Poster Session</td>
<td>Steven J. Burris</td>
<td>Virginia Military Institute</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>193</td>
<td>Virtual Online Tensile Strength Testing</td>
<td>Engineering Technology Division</td>
<td>Poster Session</td>
<td>Steven Wendel</td>
<td>Sinclair Community College</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>194</td>
<td>Teaching the Teachers: Expanding Impact of the Educational Technology Through Secondary Schools</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Susan J. Daly</td>
<td>Virginia Tech Community College</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>195</td>
<td>Teaching the Spark - How Investigating Effective Practices in the Retention of Female Students in Engineering and Computer Science</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>Susan Mary Ramey</td>
<td>Texas A&amp;M University, San Antonio</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>196</td>
<td>BLAH</td>
<td>Engineering Technology Division</td>
<td>Poster Session</td>
<td>Susan Wiens</td>
<td>University of Nevada, Las Vegas</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>197</td>
<td>Graduating Engineering Students in One Year</td>
<td>Electrical and Computer Engineering Division</td>
<td>Poster Session</td>
<td>Susan Wiens</td>
<td>University of Nevada, Las Vegas</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>198</td>
<td>Broadband Wireless Networking in the Era of Big Data</td>
<td>Engineering Technology Division</td>
<td>Poster Session</td>
<td>Tamer Omar</td>
<td>East Carolina University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>199</td>
<td>Improving an Introductory Engineering Design Course on Minority Middle and High School Student’s Self-Efficacy and Interest in Engineering (Work in Progress)</td>
<td>Pre-College Engineering Education Division</td>
<td>Poster Session</td>
<td>Samantha Ballard Huxtable</td>
<td>North Carolina State University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>200</td>
<td>Capture-Design Projects: An Emphasis on Communication, Critical Thinking and Analysis</td>
<td>Chemical Division</td>
<td>Poster Session</td>
<td>Tammy Melkus Bayes</td>
<td>University of Pittsburgh</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>201</td>
<td>Improving Engineering Programs for Secondary Schools in Trinidad and Tobago - A Work in Progress</td>
<td>Pre-College Engineering Education Division</td>
<td>Poster Session</td>
<td>Tasha Tiffany Tardieu</td>
<td>Trinidad &amp; Tobago</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>202</td>
<td>Work in Progress: Networked Virtual Reality Environment in the Teaching Converging Solar Power Technology</td>
<td>Computer Sciences Division</td>
<td>Poster Session</td>
<td>Terence L Chambers</td>
<td>Louisiana State University, Lafayette</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>203</td>
<td>Mastering the Core Competencies of Electrical Engineering Through Knowledge Integration</td>
<td>Electrical and Computer Engineering Division</td>
<td>Poster Session</td>
<td>Tim Chen</td>
<td>California State University, Fullerton</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>204</td>
<td>Biomedical Engineering Technology Concentration in An Engineering Technology Program</td>
<td>Biomedical Division</td>
<td>Poster Session</td>
<td>Kevina Gervis</td>
<td>Drexel University (Eng. &amp; Eng. Tech.)</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>205</td>
<td>Safety &amp; Health in Service Placements</td>
<td>Engineering Technology Division</td>
<td>Poster Session</td>
<td>Wei Zhu</td>
<td>Texas A&amp;M University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>206</td>
<td>Establishing a Digital Green Body Certification for Undergraduate Engineering Students</td>
<td>Engineering Technology Division</td>
<td>Poster Session</td>
<td>Wendy L. Stone</td>
<td>Western Carolina University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>207</td>
<td>Elective Design-Build Experience on Knowledge of the Engineering Design Process</td>
<td>Biomedical Division</td>
<td>Poster Session</td>
<td>William H Guillford</td>
<td>University of Virginia</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>208</td>
<td>Work in Progress: Hands-on Practice of Robotic Surgery Using Artificial Bone in a Design Course</td>
<td>Biomedical Division</td>
<td>Poster Session</td>
<td>Min Liu</td>
<td>Robert Morris University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>209</td>
<td>Modular Control of a Rotary Inverted Pendulum System</td>
<td>Engineering Technology Division</td>
<td>Poster Session</td>
<td>Hamin Zhao</td>
<td>Purdue University, West Lafayette</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
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<td>210</td>
<td>Work in Progress: A Computer-Aided Design Intelligent Tutoring System Teaching Strategic Thinking</td>
<td>Computer Sciences Division</td>
<td>Poster Session</td>
<td>Yang Hu</td>
<td>Norwalk Community College</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>211</td>
<td>Integrating Security Education Into a CS Curriculum - Practices and Experience</td>
<td>NSF Grantees Poster Session</td>
<td>Poster Session</td>
<td>F. Pan</td>
<td>Nanjing University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>212</td>
<td>A Multidisciplinary Biomedical Engineering and Embedded Microcontroller Laboratory</td>
<td>Computer Sciences Division</td>
<td>Poster Session</td>
<td>Dong Bin</td>
<td>Western Washington University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>213</td>
<td>Innovation and Entrepreneurship through Industry Academics Collaborations: A College-Industry Model for Economic Development</td>
<td>Corporate Member Council Poster Session</td>
<td>Brian Carbone</td>
<td>University of Dayton</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>214</td>
<td>Development of an Open Source Conjecture Collection and Solutions</td>
<td>Computing &amp; Information Systems Division</td>
<td>Poster Session</td>
<td>John Mirtle</td>
<td>Youngstown State University</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
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<td>213</td>
<td>15291</td>
<td>MAKER: Shedding Light on Product Development in About an Hour</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Mark Diller</td>
<td>University of Dayton</td>
<td><a href="mailto:mrd181@udayton.edu">mrd181@udayton.edu</a></td>
<td>T355</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<tr>
<td>214</td>
<td>15174</td>
<td>MAKER: Public Engineering: Informal Interactive Video and Electronic Poster Relayway Learning Experience</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Austin Talley</td>
<td>Texas State University, San Marcos</td>
<td><a href="mailto:ataustin@cs.tamu.edu">ataustin@cs.tamu.edu</a></td>
<td>T355</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<tr>
<td>215</td>
<td>16792</td>
<td>MAKER: A game to Make engineering</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Kensei Hira</td>
<td>Purdue University, West Lafayette</td>
<td><a href="mailto:hira@purdue.edu">hira@purdue.edu</a></td>
<td>T355</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<tr>
<td>216</td>
<td>15125</td>
<td>MAKER: From the Perspective of the User: An Object Recognition and 3D Printing Processes for High School Students</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Bari Taylor</td>
<td>Wayne State University</td>
<td><a href="mailto:bari@wa.state.edu">bari@wa.state.edu</a></td>
<td>T355</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>217</td>
<td>15446</td>
<td>MAKER: Locomotive Steam Engine Valve plug</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Chip W. Ferguson</td>
<td>Western Carolina University</td>
<td><a href="mailto:ferguson@wcu.edu">ferguson@wcu.edu</a></td>
<td>T355</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>218</td>
<td>15469</td>
<td>MAKER: Automated Ball Dispenser</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Christopher Chaith</td>
<td>Rochester Institute of Technology</td>
<td><a href="mailto:c.chaith@rit.edu">c.chaith@rit.edu</a></td>
<td>T355</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>219</td>
<td>17124</td>
<td>MAKER: Stronger Frames by Mimicking Nature</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Dustin Jack Hallenbeck</td>
<td>University of Pittsburgh</td>
<td><a href="mailto:djh85@pitt.edu">djh85@pitt.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>220</td>
<td>15447</td>
<td>MAKER: A Maker Space Smart Badging System</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Julie Darwin</td>
<td>Bucknell University</td>
<td><a href="mailto:jmd054@bucknell.edu">jmd054@bucknell.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>221</td>
<td>15445</td>
<td>MAKER: A Braille Clock</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Saneela Rabbani</td>
<td>Arizona State University</td>
<td><a href="mailto:sanee@asu.edu">sanee@asu.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>222</td>
<td>15448</td>
<td>MAKER: It’s All About Cost-Effective Hands-On Activities for Public Engineering Outreach to Build STEM Literacy</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Austin Talley</td>
<td>Interactive Video and Electronic Poster for High School Students</td>
<td><a href="mailto:atalley@asu.edu">atalley@asu.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>223</td>
<td>15450</td>
<td>MAKER: Come to the Dark Side at WE HAVE COOKED: CREATING AN INTERACTIVE DISPLAY TO ENGAGE EVERYONE IN STEAM</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Mike Thomas Pitcher</td>
<td>University of Texas, El Paso</td>
<td><a href="mailto:mtpitcher@utep.edu">mtpitcher@utep.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>224</td>
<td>15451</td>
<td>MAKER: A kit for science education</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Nathan Tubbs</td>
<td>Western Carolina University</td>
<td><a href="mailto:ntubbs@wcu.edu">ntubbs@wcu.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>225</td>
<td>15452</td>
<td>MAKER: A Maker Space Maker Space</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Joe Liany</td>
<td>Georgia Institute of Technology</td>
<td><a href="mailto:jli@georgia-tech.edu">jli@georgia-tech.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>226</td>
<td>14831</td>
<td>MAKER: Shedding Light on Product Development in About an Hour</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Saneela Rabbani</td>
<td>Arizona State University</td>
<td><a href="mailto:sanee@asu.edu">sanee@asu.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<td>227</td>
<td>14641</td>
<td>MAKER: Star Car 2015</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Mike Thomas Pitcher</td>
<td>University of Texas, El Paso</td>
<td><a href="mailto:mtpitcher@utep.edu">mtpitcher@utep.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>228</td>
<td>14845</td>
<td>MAKER: A kit for science education</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Nathan Tubbs</td>
<td>Western Carolina University</td>
<td><a href="mailto:ntubbs@wcu.edu">ntubbs@wcu.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>229</td>
<td>14619</td>
<td>MAKER: 3D Printing/Software/servlet/eclipse/eclipse/arduino/arduino/arduino/arduino/arduino/arduino/arduino/arduino/arduino/arduino/arduino</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Rehmat Ali</td>
<td>Rochester Institute of Technology</td>
<td><a href="mailto:rali@rit.edu">rali@rit.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>230</td>
<td>14620</td>
<td>MAKER: An Entry-level Robotic System Design</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Rehmat Ali</td>
<td>Rochester Institute of Technology</td>
<td><a href="mailto:rali@rit.edu">rali@rit.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>231</td>
<td>15836</td>
<td>MAKER: Autonomous Solar-Powered Vehicle as a Learning Tool in Robotics and Green Energy</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Richard Childs</td>
<td>Drexel University (Eng. &amp; Eng. Tech.)</td>
<td><a href="mailto:rchild@du.edu">rchild@du.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>232</td>
<td>17651</td>
<td>MAKER: Fabricating a flat-pack portable display using laser cutting and laser cutting</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Michelle Lindgren</td>
<td>University of Calgary</td>
<td><a href="mailto:mlindgren@ucalgary.ca">mlindgren@ucalgary.ca</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>233</td>
<td>16189</td>
<td>MAKER: A Buildable Cable</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Camila Rehfeld</td>
<td>University of California</td>
<td><a href="mailto:camila.rehfeld@ucalgary.ca">camila.rehfeld@ucalgary.ca</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>234</td>
<td>16019</td>
<td>MAKER: Programmable Logic Control (PLC) based Automated System for Water-Level Control for Teaching Pneumatics and Hydraulics</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Rehmat Ali</td>
<td>Rochester Institute of Technology</td>
<td><a href="mailto:rali@rit.edu">rali@rit.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>235</td>
<td>15622</td>
<td>MAVER: Light-up Star Lamp</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Stephenia Hadik</td>
<td>University of California</td>
<td><a href="mailto:whadik@ucalgary.ca">whadik@ucalgary.ca</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>236</td>
<td>17205</td>
<td>MAKER: Star Car 2015</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Stephenia Hadik</td>
<td>University of California</td>
<td><a href="mailto:whadik@ucalgary.ca">whadik@ucalgary.ca</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>237</td>
<td>16150</td>
<td>MAKER: Mobile Device App for Wireless Control of a PLC-Based Automated System</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Thomas Gilbert Hart</td>
<td><a href="mailto:Thomas.gilbert@fau.edu">Thomas.gilbert@fau.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<tr>
<td>238</td>
<td>15649</td>
<td>MAKER: 3D Printing and Design with Robot</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Tom Spendlove</td>
<td>Maker Lab College, Flint</td>
<td><a href="mailto:tspendlove@maker.ed">tspendlove@maker.ed</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>239</td>
<td>15650</td>
<td>MAKER: Programmable Logic Control (PLC) based Automated System for Water-Level Control for Teaching Pneumatics and Hydraulics</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Tom Spendlove</td>
<td>Maker Lab College, Flint</td>
<td><a href="mailto:tspendlove@maker.ed">tspendlove@maker.ed</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>240</td>
<td>15651</td>
<td>MAKER: 3D Printing and Design with Robot</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>William H. Hewett</td>
<td>Virginia Tech</td>
<td><a href="mailto:whewett@vt.edu">whewett@vt.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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<tr>
<td>241</td>
<td>14557</td>
<td>MAKER: Programmable Logic Control (PLC) based Automated System for Water-Level Control for Teaching Pneumatics and Hydraulics</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>William H. Hewett</td>
<td>Virginia Tech</td>
<td><a href="mailto:whewett@vt.edu">whewett@vt.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
</tr>
<tr>
<td>242</td>
<td>15151</td>
<td>MAKER: Interdisciplinary Senior Design Project for Print Mozart(TM) Whitepapers</td>
<td>Manufacturing Division</td>
<td>Poster Session</td>
<td>Fabio Emelien</td>
<td>Arizona State University</td>
<td><a href="mailto:femelien@asu.edu">femelien@asu.edu</a></td>
<td>T335</td>
<td>Tuesday, June 28, 11:30 am to 1:00 pm</td>
<td>New Orleans Convention Center, Exhibit Hall F</td>
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</tbody>
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