

REU POWER & D3 Final Research Presentations-110 West Village H
August 1st

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| 8:30-8:45 | <p>Welcome and Opening Remarks Brad Lehman, REU POWER Principal Investigator David Kaeli, REU D3 Principal Investigator</p> |
| 8:45-8:55 | <p>Detecting Health-Related Behaviors and Habits from Mobile Phones and Wearable Sensors (Prof. Stephen Intille) Mentor: Qu Tang</p> <p>REU D3 Participant Gilbert Liang, Northeastern University</p> |
| 9:00-9:10 | <p>Directing Photosynthesis Towards the Production of Useful Chemicals in Plants (Prof. Carolyn Lee-Parsons) Mentor: Lauren Cole</p> <p>REU POWER Participant Lily Ha, University of Maryland - College Park</p> |
| 9:15-9:25 | <p>RF Energy Harvesting Circuit (Prof. Aatmesh Shrivastava) Mentors: Ankit Mittal, Nikita Mirchandani</p> <p>REU POWER Participant Juancy Reyes, Wesleyan University</p> |
| 9:30-9:40 | <p>Lithium Ion Batteries with Different Cathode Material (Prof. Joshua Gallaway) Mentors: Matthew Kim, Alyssa Stavola</p> <p>REU POWER Participant Shakti Katheria, MassBay Community College</p> |
| 9:45-9:55 | <p>Small Scale Solar Photo-Voltaic Module (Prof. Ali Abur) Mentors: Arthur Mouco, Ahmet Oner, Pengxiang Ren</p> <p>REU POWER Participants Jennifer Avellaneda Bravo, University of Arkansas Zandria Hughes, Clark Atlanta University</p> |
| 10:00-10:10 | <p>Energy-informed Robot Autonomy (Prof. Taskin Padir) Mentor: Jiahua Wu</p> |

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| | <p>REU POWER Participant Jahsiah Sanders, Clark Atlanta University</p> |
| 10:15-10:25 | <p>Drivetrain for Autonomous Vacuum Cleaner (Prof. Taskin Padir) Mentor: Martin Caruso</p> <p>REU POWER Participant Carlin Reynolds, Northeastern University</p> |
| 10:30-10:40 | <p>Smart Solar Energy (Prof. Brad Lehman) Mentors: Xinmin Zhang, Jonathan Kim</p> <p>REU Participants Norre Emmanuel, Clark Atlanta University Woomy Michel, Clark Atlanta University</p> |
| 10:45-10:55 | <p>Human-in-the-Loop Smart Home Prototype & Visualizing Infrastructure Dynamics (Prof. Michael Kane) Mentors: Kunind Sharma, Krissy Govertsen</p> <p>REU POWER Participants Jhonatan Londono, Northern Essex Community College Jonathan Cohen, MassBay Community College</p> |
| 11:00-11:10 | <p>Benchmarking A State-of-the-art GPU Simulator (Prof. David Kaeli) Mentor: Yifan Sun</p> <p>REU D3 Participant Xin Li, Bunker Hill Community College</p> |
| 11:15-11:25 | <p>Building Tools for Automatically Processing Lab Data (Prof. Amy Mueller) Mentor: Wenjin Zhang</p> <p>REU D3 Participant Rania Hakimi, Bunker Hill Community College</p> |
| 11:30-11:40 | <p>Malware Detection Using Recurrent Neural Networks (Prof. David Kaeli) Mentor: Nicolas Bohm Agostini</p> <p>REU D3 Participant Miguel Oyler-Castrillo, MassBay Community College</p> |
| 11:45-12:10 | <p>Final Remarks</p> |
| 12:15-1:00 | <p>Poster Session & Refreshments</p> |