

RYAN T. ROOD

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EDUCATION

University of Connecticut, Storrs, CT

Master of Science in Engineering, Biomedical Engineering, December 2016

Cumulative GPA: 4.0/4.0

Bachelor of Science in Engineering, Biomedical Engineering, December 2015

Minor: Electrical Engineering (Electronics and Systems)

Major GPA: 3.525/4.0 Cumulative GPA: 3.204/4.0

ENGINEERING PROJECT EXPERIENCE

Ki H. Chon's Research Group, University of Connecticut, Storrs, CT

Research Assistant, August 2014-December 2016

- Developed and conducted experiments on human subjects monitoring EMGs, ECGs, and EDA
- Labchart and Matlab were utilized for data collecting and data analysis
- Gained hands on experience with signal processing

Center for Students with Disabilities, University of Connecticut, Storrs, CT

UConn IDEA Grant Recipient, August 2014-May 2015

- Researched assistive technology to help students with disabilities improve note-taking methods
- Prepared and submitted requests for IRB approval to do research on human subjects
- Awarded grant from the University to fund the research as part of competitive application process

School of Engineering, University of Connecticut, Storrs, CT

Senior Design Project, August 2014-May 2015

- Worked directly with the company FLEXcon on evaluating their electrodes for stress monitoring
- IRB approved study on 20 human subjects for stress testing
- Extensive use of Matlab for the creation of stress tests as well as data analysis

George Whiteside's Research Group, Harvard University, Cambridge, MA

Research Assistant, June 2014-August 2014

- Developed and conducted weekly experiments that required extensive planning and data collection
- Used electrochemical methods to measure oxygen gradients in 3D cell cultures
- Wrote intensive Matlab code to analyze data and Arduino code used for a portable data-collecting device
- Gained significant experience in cell culture

EMPLOYMENT EXPERIENCE

Center for Students with Disabilities, University of Connecticut, Storrs, CT

Assistive Technology Program Coordinator, December 2016 - Present

- Perform outreach to UConn community on learning technologies available
- Organize workshops/presentations for students, faculty and staff
- Supervise undergraduate/graduate students on technology team
- Monitor database for proper usage by technology team

Center for Students with Disabilities, University of Connecticut, Storrs, CT

Graduate Assistant, December 2015-December 2016

- Meet with students to discuss/demonstrate technology-related recommendations to improve their learning
- Maintain the department website with constant updates, blog posts, and overall design
- Act as supervisor to undergraduate students on technology team

Center for Students with Disabilities, University of Connecticut, Storrs, CT

Technology Team, May 2013-December 2015

- Research assistive technology to promote independence for students as well as better their education
- Meet with students to discuss/demonstrate technology-related recommendations to improve their learning

PUBLICATIONS

- [1] H. Posada-Quintero, R. Rood, K. Burnham, J. Pennace, and K. Chon, "Assessment of Carbon/Salt/Adhesive Electrodes for Surface Electromyography," *IEEE Journal of Translational Engineering in Health and Medicine*. 2016.
- [2] H. Posada-Quintero, R. Rood, Y. Noh, K. Burnham, J. Pennace, and K. Chon. "Dry Carbon/Salt Adhesive electrodes for recording Electrodermal Activity," *Sensors & Actuators: A. Physical*. (PENDING)