

Makenzie Brian

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Education & Academics

Oregon State University Honors College
Bachelors of Science in Electrical Engineering
Focus Area: Robotics

Corvallis, Oregon
Expected Graduation: December 2017
Overall GPA: 3.83

Research Experience

- Undergraduate Research with Dr. Bill Smart* *Corvallis, Oregon* *Fall 2016 to Present*
- Developed system for data collection to track use of a modified commercial Ride-On Car for children with developmental hindrances
 - Collected data which will be processed into a published Honors College Thesis that depicts the relation between frequency and duration of use with good developmental outcomes for the children
- Undergraduate Research with Don Heer* *Corvallis, Oregon* *Fall 2015 to Summer 2016*
- Collaborated with other undergraduates on a variety of projects in Electrical and Computer Engineering and improved my teamwork and communication skills
 - Researched and developed projects for new courses to encompass vital student skills in Electrical Engineering at the Junior level
 - Developed and assembled PCBs and debugged a Wireless Water Level Sensor Project to allow Corvallis residents to be alerted to possible flooding in the Mary's Peak Watershed on a website
 - Communicated through written reports and through active participation in meetings with project team
- Undergraduate Research with Dr. David Koslicki* *Corvallis, Oregon* *Summer 2015*
- Researched mapping transcription factor rates in genes using linear algebra
 - Used the WaRSwap Software Application to find motifs in large multilayer biological networks
 - Improved understanding of scientific literature and reading for conceptual understanding

Honors & Memberships

- Member – Eta Kappa Nu IEEE Honors Society *Fall 2016 to Present*
- Research Mentor – Ellen Momsen's Mentor Program *Spring 2016*
- Active Member – Phi Sigma Rho Engineering Sorority *Winter 2015 to Present*
 - Co-Sisterhood Chair *Spring 2016 to Winter 2017*
- Mentor – SWesters Mentor Program *Fall 2015 to Spring 2016*
- Mentor – WEOP Early Orientation Program for Women in Engineering *Fall 2015*
- Participant – Hardware Weekend *Spring 2015, Fall 2016*
- Member – Society of Women Engineers *2014 to Present*

Skills

- Verbal and written communication
- PCB design and assembly
- Programming: C, Python, MATLAB
- 3D Modeling in Solidworks
- Critical thinking and problem solving
- Rapid prototyping for proof of concept
- Attention to detail and how details affect the project as a whole