Benjamin Narin

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Education: Oregon State University

MSc Robotics 2016 - Present Expected Graduation August, 2018	Classes: Sequential Decision Making, Human Robot Interaction, Mobile Robotics, Artificial Intelligence, and Behavior Modification Advisor Dr. William Smart. Researching Intelligent Wheelchairs for people with extreme physical disabilities (ALS, Quadriplegia and SMA).
B.S. Computer Science 2016	Classes: Algorithms, Operating Systems (1&2), Introduction to Computer Security, and Software Engineering (1&2)
B.S. Electrical Engineering 2016	Classes: Electronics (1&2), Micro-controller System Design, Computer Architecture (1&2), and Applied Robotics

Work Experience

Graduate Research Assistant, OSU Personal Robotics Group, Corvallis, OR — Sept 2016 – Present

- Researching human self-driving wheelchair interactions for real world application
- Engineering more robust and feature rich revisions of a self-driving wheelchair
- Created a Robot Operating System bridge to standard power wheelchairs
- Collaborated with the OSU Kinesiology Department adding logging to the Go Baby Go Project

Graduate Teaching Assistant, ME 451:Instrumentation and Measurements, Corvallis, OR — Fall 2017, Winter 2018

- Taught Electrical Fundamentals, Arduino Programming, and Sensor Integration
- Coordinated 38 unique group projects for a class of 126 Students
- Mentored students to guide design and properly scope their project

Electrical Engineering Intern, SuitX, Berkeley, CA — June 2016 – September 2016

- Developed custom electronics for both medical and industrial exoskeletons
- Established the workflow for electrical design and validation
- Promoted the company and products at Expos and Venture Capitalist events.
- Assembled and customized a networking solution for the new company headquarters

Undergraduate Research Assistant,OSU Personal Robotics Group, Corvallis, OR — June 2013 – May 2016

- Competed in the Semi Finals of The UAE Robotics For Good Competition, Dubai 2016
- Designed, built and evaluated several iterations of a self driving wheelchair.
- Invented a low cost Electrooculography (EOG) Emergency Stop

Electrical Team Lead, OSU Mars Rover Team, Corvallis, OR — October 2011 – July 2013

- Conceptualized and fabricated the control system for the 2011-2013 OSU Mars Rover

Skills and Interests

- Research involving Path Planning and Mobile Robotics
- Programming Languages: Robot Operating System (ROS), Python, C, C++, LaTeX, and Arduino
- Software/OS: Eagle CAD, Linux, Git, Windows, and OSX
- Experience with MATLAB, pfSense, FreeNAS, ESXI, Altium, Solidworks, AutoCAD, and Assembly

Achievements and Awards

- Semi-finalist - Robotics For Good Competition, Dubai 2016
- Boeing Engineering Excellence Award, Senior Capstone, 2015
- Chosen to represent Oregon State University in the PAC 12 Conference of Champions Video, 2015
- Fourth Place - University Rover Challenge (URC), 2013