# RYAN SKEELE

**2185 Sally Way Eugene, OR 97401**

**rycoske@gmail.com** **541-556-3025**

## Education

Oregon State University 2009-Present

Pursuing MS in Robotics

Expected Graduation: June 2016

Bachelors in Mechanical Engineering, International Studies, Minor in Spanish GPA: 3.5/4.0

## Experience

### Robotic Decision Making Laboratory

Graduate Research 2014-Present

- Thesis topic: UAV path planning in unstructured environments
- Publication: K. Cesare, R. Skeele, S.-H. Yoo, Y. Zhang and G. Hollinger, "Multi-UAV Exploration with Limited Communication and Battery," in Proc. IEEE Int. Conf. on Robotics and Automation (ICRA15), Seattle, WA, May, 2015, to appear

*Skills used: Physical design, modeling, and construction of quadcopter research platform*

### Undergraduate Thesis

Literary Survey Spring-2014

- Title: Autonomous Quadcopter Research, Systems, and Global Impacts
- A literary survey of the state of UAV technology and the potential impacts on the global economy

### Dynamic Robotics Laboratory

Research Assistant 2012-2013

- Built and maintained human size bipedal robots for use by researchers from three universities to implement different walking gait controllers
- Contributions include construction of three robots, customizing test equipment to characterize fiberglass springs, and designing foot force sensors

*Skills used: Large assembly solid modeling, FEA, testing, root cause failure analysis, component design*

### Robotics Aerial Team

Mechanical Team Lead 2011-2013

- Responsible for the hardware design and construction of a quadcopter
- Weight optimized chassis with onboard computing and sensor packages
- Efficiency tested propeller/motor combinations for maximum flight length and performance

*Skills used: Design, solid modeling, FEA, machining, BOM management, team coordination*

### Robotics Club

President, Vice President 2012-2013

- Responsibilities as a club officer included professional email correspondence, coordinating club officers and event directors, public outreach events, and other administrative duties
- Mentored members with homework and projects, and managed the club's tools and lab space

### Applied Robotics

Mechanical Engineer Spring 2013

- Design, solid modeling, and machining of an autonomous dynamic game playing robot, website management

### ASME Student Design Competition

Mechanical Engineer Winter 2013

- Manufacture of carbon fiber/Kevlar chassis, four-bar linkage camera mount
- Microcontroller programming in C

## Skills

Software: Linux, Matlab, C++, Labview, ROS, Python, Arduino

Hardware: Solidworks, Manual Machining, Edgecam, CNC Machining