Dylan Jones

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EDUCATION

OREGON STATE UNIVERSITY

PhD Candidate in Robotics
Research Assistant in Robotic Decision Making Lab
Expected May 2020 | Corvallis, OR
Cum. GPA: 3.95 / 4.0

TUFTS UNIVERSITY

BS in Mechanical Engineering
May 2015 | Medford, MA
Summa Cum Laude
Dean's List (All Semesters)
Cum. GPA: 3.89 / 4.0

SKILLS

PROGRAMMING

MATLAB • Python • C++
HTML • ROS

SOFTWARE TOOLS

AutoCAD • Solidworks • LabVIEW
Microsoft Office Suite • MATLAB

ACTIVITIES

Tau Beta Pi
• Secretary
Tufts Engineering Mentors
• Founding Member
Tufts Bikes
• Mechanic
Tufts Univ Club Soccer Team
• Captain
Tufts Board Game Club
• Founding Member

AWARDS

2016 NSF GRFP Honorable Mention
2015 O'Leary Design Award for Top Senior Design Project
2014 Daniel V. Byrne, E76, Endowed Scholarship
2013 Daniel V. Byrne, E76, Endowed Scholarship
2012 Frank T. Lewis Scholarship

RESEARCH

ROBOTIC DECISION MAKING LAB

| Research Assistant
Sep 2015 - Current | Corvallis, OR
Worked with Professor Geoffrey Hollinger to develop EESTO, an algorithm for planning energy efficient trajectories through ocean currents.

EXPERIENCE

NEW ENGLAND HYDROPOWER COMPANY

| Intern + Site Designer
June 2013 - Sep 2013 + Aug 2014 - Apr 2015 | Beverly, MA

- Created a parametrized model of the Archimedes Screw Technology, using AutoCAD Inventor, that was then used to quickly create models of potential sites using collected data
- Interacted with both clients and government agencies to obtain needed information on potential installation sites
- Introduced new technologies into the workflow to decrease turnaround times and ensure accurate data acquisition

TUFTS COMPUTER SCIENCE DEPARTMENT

| Computer Science Teaching Assistant
Sep 2013 – May 2015 | Medford, MA

- Taught students C++ and computer science concepts
- Evaluated and graded homework for functionality
- Designed and wrote homework, labs and projects to increase learning for students

PACHYDERM CREATIONS LLC

| Data Manager and Developer
Sep 2011 – May 2015 | Portland, OR

- Managed data and created visually aesthetic workbooks and usable user interface forms using Microsoft Excel
- Wrote a web scraper application which stored its results in a MySQL database

PARKER CHOMERICS

| Intern
Jun 2014 – Aug 2014 | Woburn, MA

- Tested materials for physical and EMI shielding properties using ASTM standards
- Designed and tested processing parameters and procedures for extrusion machinery on a manufacturing floor
- Analyzed production processes using Six Sigma tools

SELECT PUBLICATIONS

[1] D. Jones and G. Hollinger. Planning energy-efficient trajectories in strong disturbances. IEEE Robotics and Automation Letters, vol. 2, no. 4, pp. 2080 - 2087, Oct. 2017.

[2] D. Jones, M. Kuhlman, D. Sofge, S. Gupta, and G. Hollinger. Stochastic optimization for autonomous vehicles with limited control authority. Proc. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Madrid, Spain, Oct. 2018, to appear.