

Daniel Fernández

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Strengths

- Academic** Applied Marine Field Robotics, Path Planning under Uncertainty, Wave Energy Conversion Vehicle Station-Keeping, Model Predictive Control, Robotic Search, Electronics Hardware Integration, Coastal Oceanography, Neural Networks, Genetic Algorithms, Machine Learning
- Software** Solidworks, Pro/E, Python, C++, MATLAB, Labview, ANSYS AQWA, WAMIT, HTML, CSS, Ruby on Rails, MS Windows, Visual Studio, Office Suite, Linux, OS X
- Industrial** Lean/6-Sigma Operations, Tool Design, Defect Control, Visual-Based Process Planning Technical Writing, Ordnance Handling, Training, Government Customer Satisfaction, Silver Solder, Oxy Braze, TIG Welding, CNC Machining, Molybdenum Laser Welding
- Field Work** R/V Elakha (11 Cruises), R/V Coral Sea (1), R/V Oceanus (2), R/V Atlantic Explorer (1)

Professional Experience

- Oregon State University *Corvallis, OR*
Graduate Research Assistant, Robotic Decision Making Laboratory Sep 2014 – Present
Assistant Glider Tech, CEOAS Glider Research Group, R/V Elakha July 2014 – June 2015
Engineering Technician, O.H. Hinsdale Wave Research Laboratory Summer 2014
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- Lockheed Martin Missiles and Fire Control *CA/AL/FL*
Engineering Contractor, Santa Barbara Focalplane, Santa Barbara, CA Feb 2013 – Mar 2014
Production Support Engineer, Pike County Operations, Troy, AL June 2010 – May 2012
Student Technical Specialist, Ocala Operations, Ocala, FL Summers 2007, 2009
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- Doma Ventures, LLC *Miami, FL*
Development Engineer, South Miami Office June 2012 – Sep 2013

Education

- Oregon State University — Corvallis, OR
M.S. Robotics, September 2015
Minor in Coastal/Ocean Engineering
Cumulative GPA: 3.7/4.0
Relevant Coursework:
Robotic Sequential Decision Making,
Linear Controls, Marine Glider Dynamics,
Wave/Fluid Mechanics, Coastal Hazards,
Coastal Oceanography, ROV Operation
- University of Florida — Gainesville, FL
B.S. Mechanical Engineering, May 2010
Cumulative GPA: 3.2/4.0
Heat Transfer, Finite Element Method,
Mechanical Vibrations, Solar Utilization,
Computer-Aided Draft and Design

Research Grants Supported

- Department of Energy:** Autonomous Vehicles for Supporting Marine Renewable Energy Arrays
- Office of Naval Research:** Adaptive Decision Making and Autonomous Exploration/Exploitation
- W.M. Keck Foundation:** Bioacoustic Sensors and Path Planning on Webb Slocum Gliders
- PCC Structurals, Inc:** Investment Casting Work Schedule Optimization

References, Transcripts, full CV available; please see <http://dferna.ndez.me>