MARTÍN RODRIGUEZ

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EDUCATION

BS Electrical Engineering
Portland State University, Portland, OR **2008–2011, 2015–2019**

- Lam Research Core Values Scholarship **2017**
- Multiple Engineering Cooperative Program (MECOP) – Lam Research **2017**
- Research Experience for Undergraduates (REU) – teuscher.:Lab **2016**
- Ronald E. McNair Scholarship **2011**
- Oregon Space Grant **2011**

LANGUAGES

• C/C++ • Python • Julia • Matlab • Bash
• ARM/MIPS Assembly • Verilog • Haskell • Rust • LaTeX

TECHNICAL SKILLS

• Embedded Systems • GNU/Linux • Git • Jira
• LTspice • Electron Microscopy • Atomic Force Microscopy

PROFESSIONAL EXPERIENCE

Quality Assurance Tester
Plus QA, Portland, OR **Jun. 2018–Dec. 2019**
Performed quality assurance testing for mobile and web apps on a variety of platforms

Capstone Project Team Member
Portland State University, Portland, OR **Jan.–Jun. 2019**
Developed a system for the early detection of forest fires using environmental sensors, machine vision, and deep learning techniques in Python and TensorFlow

Electrical Engineering Intern
Lam Research, Tualatin, OR **Mar.–Sep. 2017**
Researched and developed methods of manufacturing and characterizing atomic force microscope probes using an electron microscope, leading to improved tool sensitivity and efficiency

Undergraduate Researcher
teuscher.:Lab, Portland, OR **Jun.–Sep. 2016**
Optimized neural network (reservoir computation) techniques in Python and Matlab and applied a novel filtering algorithm to the output layer in reservoir simulations, increasing accuracy and reducing simulation runtime

Summer Intern
NASA Goddard Space Flight Center, Greenbelt, MD **Jun.–Aug. 2011**
Designed orbit simulations in Matlab, aiding in the nascent stages of the CubeSat (modular satellite systems for use in education) program

Undergraduate Lab Assistant
Weislogel Lab, Portland, OR **Jan.–Jun. 2011**
Studied capillary-driven fluid flow in microgravity and developed cushioning support for drop tower experiments, providing better protection for sensitive experiments