

CHRISTIAN GUERRERO

cguerrero@hmc.edu • 615-775-7215 • christian-guerrero.com

EDUCATION

B.S. Engineering (Emphasis: Aeronautics & Astronautics) | **May 2016**

Major GPA: 3.00

Harvey Mudd College, Claremont, CA

• *Dean's List*

Spring/Fall 2015, Spring 2016

Relevant Coursework

Multivariable Calculus • Differential Equations/Linear Algebra II • Fourier Series/Boundary Value Problems • Intro to Computer Science • Principles of Computer Science • Robotics Lab • Autonomous Robotics Navigation • Software Development Fundamentals • Experimental Engineering • Theoretical Mechanics • Management of Technical Enterprise • Ethical Issues in Science & Engineering • Public Speaking

SKILLS

Programming Languages: Java, Python, C++, MATLAB, LabVIEW, JavaScript, HTML, CSS, JQuery, Prolog

Software: Linux, Visual Studio, Eclipse, Igor Pro, Microsoft Office, COMSOL, Creo Parametric

Other: GIT, Command Line, LaTeX, Bread-Boarding, HAM Radio License, Power Tools, Bilingual (Spanish)

WORK EXPERIENCE

Associate Test Engineer– Accenture – Nashville, TN

January 2017 – **Present**

Job Entails:

- Planning, constructing, and execution of test scripts relating to the insurance policy software suite, Duck Creek
- Applying functional knowledge including testing standards, guidelines, and testing methodology to meet the team's overall test objectives
- Ensuring testing results are easily accessible and understandable
- Tracking defects to closure and keeping defect repository up-to-date

Sub-Contractor Assistant – Nashville, TN

Summer 2015, May – December 2016

- Worked with and applied structural and materials engineering principles in real-world situations
- Gained experience in home remodeling in areas of electricity, plumbing, framing, ceramic tile, among others
- Acquired machine-shop experience using power tools
- Used data sheets in installation of electrical appliances

PROJECT EXPERIENCE

The Aerospace Corporation - Harvey Mudd College Clinic Project (team of 5)

Fall 2015 – May 2016

- Worked on enhancing the graphical features of the Satellite Orbit Analysis Program (SOAP) as part of an industry-sponsored project by using C++, Visual Studio, qt, and Cmake
- Implemented realistic smoke into a standalone qt application as one of the final deliverables
- Took part in weekly teleconferences with the company liaisons
- Presented results to high-level managers and liaisons at The Aerospace Corporation and to students, faculty, and guests at Harvey Mudd College during Presentation's Day

Robot Programming

Autonomous Robotics Navigation (team of 2)

Spring 2015

- Implemented odometry localization, point-tracking, and particle filter localization on a Dr. Jaguar Lite robot
- Placed 2nd in a team competition

Robotics Lab (team of 2)

Spring 2014

- Programmed an AR Drone 2.0 to be controlled with hand gestures using Python, ROS, and a Leap Motion
- Implemented line tracking, laser-based navigation, and image processing w/Kinect Camera and Rumba robot

RESEARCH

Aerospace Engineering Research Assistant - University of Illinois at Urbana Champaign

Summer 2014

- Debugged, tested, and optimized GSAD, an Algorithmic Differentiation C++ library that exploits matrix sparsity

Physics Research Assistant - Pomona College

Summer 2013

- Assisted in the construction, optical alignment, and maintenance of a low-cost Adaptive Optics (AO) system
- Installed and tested the system's Linux operating system and imaging cameras