

Eloy Salinas

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EDUCATION

University of California at Santa Cruz

B.S. Robotics Engineering, Minor in Astrophysics
School of Engineering GPA: 3.57

Santa Cruz, CA

Sept 2012 – June 2015(expected)

Courses: Logic Design, Signals, Data Structures and Algorithms, Mechatronic Design, Micro Controller Architecture and Design, Control Systems, Quantum Mechanics, Feedback Control Systems, Design and analysis of Hybrid Dynamical Systems, Sensors, Computer Vision, Bio Locomotion, Statics and Dynamics, Signals and Systems, Electronic Circuits

Leadership: Chair of the IEEE UCSC Chapter for two terms, Lead Engineer on 2015 senior design project

Achievements: Professional Career Development Program Scholarship recipient, Deans Honors: 2013, 2014

Santa Rosa Junior College

Transferred as an Engineering student

Santa Rosa, CA

Sept 2008 - Sept 2012

Courses: Calculus, Linear Algebra, Discrete Math, Differential Equations, Physics, Data Structures, Computer Architecture

WORK EXPERIENCE

UCSC Autonomous Systems Lab

Research Assistant

Undergraduate research in autonomous and embedded systems. Assist graduate student and professor on energy harvesting mountain lion collar project.

Santa Cruz, CA

September 2014–Present

MAKE: Magazine

Special Projects Engineer

Engineering Intern

Build, design, debug, and test select projects for the magazine before publication. Ensuring proper functionality of projects and clarity of the instructions to build them. Duties include circuit design, programming libraries, electronics debugging, and rapid prototyping with CAD, CNC, 3D Printer, Circuit design, and Laser Cutter.

Sebastopol, CA

September 2013-May 2015

June 2013–September 2013

UCSC EOP

Web Developer

Maintain and create web pages for the UCSC Educational Opportunity Program using PHP, CSS, and JavaScript.

Santa Cruz, CA

March 2013–Present

California Connects

Digital Literacy Community Outreach Intern

Present seminars and lessons on digital literacy to the local community.

Santa Rosa, CA

Aug 2011–July 2012

PROJECTS

- SmartBar Bartending Robot – 2015 Robot to promote responsible drinking habits by increasing social and personal awareness of alcohol consumption. Every user is monitored, prompted to hydrate, and cut off as a safe limit is reached.
 - Digital Compass – 2014 Built a digital compass by designing a circuit with a magnetometer and processing the output
 - Pet Water Warden – 2014 Published a project in MAKE to autonomously fill and monitor a pet bowl remotely
 - Wireless Connect Four – 2013 Designed a wireless connect four game with networking and save features on PSoC5
 - FPGA Ball Catch Game – 2013 Using combinational and sequential logic to build a ball catch game on Basys2 FPGA
 - Autonomous Battle Bot – 2013 Designed an autonomous bot to attack, navigate, and sense the arena with a PIC32
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TECHNICAL SKILLS

- Microcontrollers & Embedded Systems: PIC32 UNO32, Basys2, ARM, Raspberry Pi, Arduino, Cypress, Xbee, FPGA, Signal Conditioning, Atmel, BeagleBone, Intel Edison & Galileo
- Rapid Design & Prototyping: Circuit Design, CAD 3D Modeling, Laser-cutting/Production
- Programming Proficiency: C, C++, Python, Java, PHP, MySQL, JavaScript, AJAX, Verilog, MATLAB, CSS
- Software Proficiency: Cadence OrCAD, Solid Works, MATLAB, Dreamweaver, Photoshop, Xilinx ISE, PSoC Creator, Arduino IDE, LabView; Certified Microsoft Office Specialist in Excel, Word, and PowerPoint