Ryan Andrew Gauthier

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Relevant Projects

CSUF Student Design Team - Titan Rover   September 2017 – June 2020

- Designed, developed, and tested a competitive mobile robotic platform as part of a highly interdisciplinary team for the University Rover Challenge
- Designed, manufactured, and tested a three degrees of freedom robotic arm for use as a soil excavator as part of the Science sub-team, which was featured in the capstone video
- Redesigned in SolidWorks and fabricated via 3D printing a wireless button-pressing assembly for use by a robotic gripper using various off-the-shelf components and microcontrollers
- Implemented a stepper motor with potentiometer feedback via an Arduino Uno communicating over serial with a Raspberry Pi to facilitate rotation of a base station antenna
- Developed spreadsheet scripts in Google Sheets to assist with budgetary needs, including an automated email system and interactive master budget

Education

California State University, Fullerton   August 2017 – May 2020

Bachelor of Science in Mechanical Engineering, Minor in Computer Science
Graduated Cum Laude with 3.52 GPA overall, Dean's List last four semesters

Fullerton College   August 2014 – May 2017

Relevant Elective Courses

ME:	Mechanical Control Systems	Intro to Mechatronics
	Analytical Methods in Engineering	Intro to Continuum Mechanics
CS:	Data Structures	File Structure and Database Systems
	Intro to Game Design	Web Back-End Engineering

Technical Skills

Software: Arduino IDE, AutoCAD, Bootstrap, C, C++, Flask, GitHub, HSMWorks, JavaScript, Linux, MATLAB, Microsoft Office, MySQL, Python, SolidWorks, Ultimaker Cura, Unreal Engine 4, Web Technologies

Hardware: Bandsaws, breakout boards, calipers, drill presses, drills and taps, electronic components, FDM 3D printers, files, Haas CNC Mills, manual mills, microcontrollers, multimeters, picks and punches, rotary tools, shears, soldering irons, various abrasives, waterjets

Work History

Part-time Storekeeper   November 2016 – July 2021

Gauthier Enterprises Inc   Brea, California

- Performed various general shopkeeping duties in a convenience store context including stocking, cashiering, and cleaning
- Received, validated, and delivered prepared orders with values in the mid thousands weekly

Current Project

Web-Enabled CookieBot

- Developing a robotic system able to bake cookies on a livestream according to aggregated requests. Completed initial landing page via Bootstrap and custom JavaScript