Danny Avery

Computer Engineer

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EDUCATION

2020 Bachelor of Science from University of California, Santa Cruz,
Computer Science and Engineering: Computer Systems Concentration

EXPERIENCE		SKILLS
2019	Circuit Designer Aeroasis LLC (Feb - Aug) Lead for the electronic hardware design, managed consultants and manufacturers, interviewed potential contractor hires, product development and testing.	Languages Python, Verilog, C, C++, Latex, Bash, Java, LC-3, HC11. Software
2018	Soundscapes Designer Monterey Bay Aquarium Research Institute (Jun - Dec) Independently researched and developed exhibit from start to finish, self-taught Linux, Bash, and Pi Presents software.	Vivado, Git, PSoC Creator 4.2. Hardware FPGA, IoT,
2018	Product Design Intern deMETER (Jun - Sep) Connected and analyzed sensor data over I2C connection to an Arduino, UI/UX design for web app, reviewed product datasheets for compatibility.	Raspberry Pi, Arduino, PSoC. Concepts Agile, CI/CD. Academics
2018	Exhibit Designer Sanctuary Exploration Center (Apr - Aug) Restored exhibits within the confines of custom enclosures, designed an affordable wind tunnel donation box using hairdryer, taught clients to edit software I implemented.	Comp Networks, Microcontroller Sys, Comp Architecture, Abstract Data Types, Logic Design.

PROJECTS

2020	Automated Hydroponic Unit Sensor data collection, state-based actuator triggering, market research, team leadership, gant chart work distribution.
2019	Raspberry Pi Button Array AV system integration, soldering, Linux file management, Bash scripting, modular prototyping, debugging electronic wiring.
2019	Shopping Website and Server Web2Py Python server hosting on local host, HTML, CSS and JS animated site, access control using cookies.
2018	Hardware Logic Falling Game HSync and VSync pixel coloring, state-machine based logic, Verilog programmed FPGA, real-time response to user input.