

Dwight Diesmo

Fresh computer engineering graduate student in search of a educational and team-oriented environment where I can apply, develop, and learn skills in the fields of embedded systems, digital design, distributed systems, computer networks & database. I am eager to serve a broad range of duties to better grasp an understanding of the business, product development, and engineering process.

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EDUCATION

San Diego State University

Bachelors Degree in Computer Engineering | GPA 3.27 | 2018 - 2022

- SDSU Weber Honor's Society
- SDSU Dean's List 2019, 2020, 2021
- SDSU IEEE - Vice Chair of Projects, Community Initiative Director
- SDSU Residence Hall Association - Vice President
- SDSU Entrepreneur Society - Member
- Embedded Systems Programming, Embedded Operating Systems, Microprocessors, VLSI System & Circuit Design, Computer & Data Networks, Multimedia Communications

PROFESSIONAL EXPERIENCE

Computer Engineer | Project Engineer | Team Lead | Champion

SD Hacks | April 2022

- Awarded "Best Overall" for designing an Autonomous Adaptive Solar Ecosystem
- Organized team of Electrical and Computer Engineers to compete in hackathon.
- Designed system level diagram and curated parts
- Created Web App, soldered, tested, led development on solar panel, photoresistors, voltage switch, solar charger, and liquid pump

Embedded Systems Engineer | Electrical and Computer Engineering Team Lead

Department of Defense | Senior Design | August 2021 - May 2022

- Partnered with National Security Innovation Network, our team was tasked with developping a launchable remote surveillance device
- Interfaced seismic, GPS, microphone, and camera to microcontroller; Stored data in SQL and performed image and audio compression and processing.
- Designed the architecture and developped mobile/web-application remote command interface on the .Net Framework with Angular and SQL
- Built, tested and designed circuit board for flexible-hybrid electronic PIR motion sensor using KiCad

Assisstant

SDSU Research Foundation| January 2022 - May 2022

- Trained in cybersecurity, sensor processing, communications technology, and artificial intelligence.
- Used linux, C, and operating system knowledge to inject background processes into the Debian operating system.
- Destroyed debian operating system in virtual machine environment.
- This was a funded training program from the US Marince Corps.

Founder | Lead Event Organizer

Hack Iloilo w/ NewCo Foundation | January 2019 - August 2019

- Responsible for garnering sponsorships from US/ Philippines based companies
- Reached out to Universities, High Schools, and Organizations to organize student involvement
- Managed a team of volunteers which I recruited
- Managed/ mentored 125 competitors, co-judged final projects, and ran coding workshops

Makerspace Specialist, Engineer, Mentor & Intern Lead

RCMakes & NewCo Foundation | June 2016 - August 2019

- Designed and Coded the official company website using Hugo as a framework
- Managed the Back-End Website and Corporate Wiki
- Simultaneously led multiple teams of interns in the development of consumer products and services
- Trained interns in the use of industrial equipment (3D Printers, Laser Cutters, etc.)
- Responsible for communications and involvement with outside organizations, customers, and businesses

Non-Credentialed CTE Instructional Assistant

Ventura County Office of Education | June 2019 - August 2019

- Taught high school students modern web/app development using Bootstrap, Git, Github, HTML, CSS, JavaScript, and React*

TECHNICAL SKILLS

C, C++, C#, Python, HTML, CSS, JS*

Verilog, System Verilog, Vivado

Bootstrap Framework

Python Flask

AutoDesk Fusion 360 *

KiCad, TinkerCad, Fritzing

SQL*, MySQL

Matlab

Git, GitHub