Eric Jaszkowiak

Electro-Mechanical Engineering Student

Electro-Mechanical Engineering Student with internship experience as a Test Engineer at Volvo (2022), and Joby Aviation (2021), emphasis in Electric Vehicles. Skilled with CAD, electrical networks, and testing setups. Seeking a Summer 2023 internship to expand my knowledge of engineering. Graduating in December 2023.

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EDUCATION

Electro-Mechanical Systems Engineering Technologies

California State Polytechnic, Pomona (Cal Poly)

08/2020 - 07/2022 *GPA: 3.52*

Courses

- Strength of Materials
- Manufacturing
- Thermodynamics
- Statics & Dynamics
- C/C++ Programming
- Instrumentation & Controls
- Fluid Dynamics
- Heat Trasnfer
- Engineering Graphics (CAD)
- Electrical Networks

Electrical Engineering

University of California, Santa Cruz

09/2018 - 06/2020

Courses

- Physics & Chemistry
- Vector/Multivariable Calculus
- Semiconductor Materials
- Python

WORK EXPERIENCE

Test Engineering Intern

Volvo Construction Equipment

05/2022 - 07/2022 *Shippensburg, PA*

Achievements/Tasks

- Tested/operated diesel & prototype Electric Vehicle Compactor. Analyzed data, compiled reports for design changes.
- Utilized Dewesoft, Ipetronik testing hardware and software to measure pressure transducers, thermocouples, accelerometers.
- Designed test setups, for transmission to data loggers in Controller Area Network (CAN); cable and pin orientation.

Test Equipment Design Engineering Intern

Joby Aviation

05/2021 - 07/2021 *Santa Cruz, CA*

Electric Aerial Vehicle Startup

Achievements/Tasks

- Deployed and executed tests for E-VTOL aircraft components.
- Employed additive manufacturing, laser cutting, waterjet, and CNC machine for parts created in SolidWorks and CATIA.
- Produced testing equipment to evaluate fracture/failure threshold, water flow rate ability, and impact hardness.

SKILLS

SolidWorks | CATIA | MATLAB | SIMULINK | Amesim | Dewesoft | IPETRONIK | Multisim | LabView | Automotive CAN | C/C++ | Python | Arduino | Adobe Suite | Blender | Figma | Unreal Engine 5 | 3D Printing | Welding | Soldering | Leadership

PERSONAL PROJECTS

Edge Detection Robot

- Robot utilizing Arduino, motors, and ultrasonic sensors to navigate a table and avoid capitulation.
- Versed in Arduino code to set up robotic systems. Designed and 3D printed robot chassis.

Epoxy “River” Guitar

- Fabricated electric guitar sculped from live-edge wood, filled with colored epoxy.
- Experimented with resin curing methods. Operated CNC machine to mill out pockets for guitar electronics.

LANGUAGES

Spanish

Limited Working Proficiency

German

Elementary Proficiency

INTERESTS

Guitar Luthier/Musician | Illustration | Deepfakes | Animation | Woodworking | Virtual Reality