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

Instrumentation & Controls

Manufacturing

Fluid Dynamics

- Thermodynamics

Heat Trasnfer

- Statics & Dynamics

Engineering Graphics (CAD)

- C/C++ Programming

- Electrical Networks

Electrical Engineering

University of California, Santa Cruz

09/2018 - 06/2020

Courses

Physics & Chemistry

Semiconductor Materials

- Vector/Multivariable Calculus

- 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 InternJoby Aviation

05/2021 - 07/2021

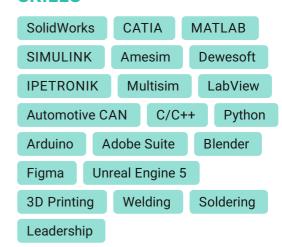
Santa Cruz, CA

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



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

