



JOSHUA BALBI

MECHANICAL ENGINEERING AND OR COMPUTER SCIENCE

PROFILE

To obtain an internship/CO-OP position in a company where my education, experiences and capabilities can be fully utilized in order to achieve the company's goal.

CONTACT

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Address: 6322 Squirewood Way
Lakeworth, FL 33467

LANGUAGE

Fluent in English and Spanish,
Knowledgeable of Portuguese

ATHLETICS

- Tufts University Varsity Swim Team – NESCAC (conference and NCAA QUALIFIER)
- Peruvian Nation Swim Team – National Record Holder
- Tufts University Water Polo Club
- St. Andrews Aquatics Club – Senior Captain

EDUCATION

TUFTS UNIVERSITY – DOUBLE MAJOR – B.S. MECHANICAL ENGINEERING AND B.A. COMPUTER SCIENCE – MINOR IN ENGINEERING MANAGEMENT AND MATHEMATICS - August 2019 – December 2024
Tufts Dean's List: Spring 2020, Summer 2020, Fall 2020, Spring 2021
GPA: 3.40 – All American for swimming:2020,2021,2021

WORK EXPERIENCE

Zygo Corporation - Internship

Jan 2023 – August 2023

Collaborated in testing the accuracy and precision of machines that measure gratings to the nanometer using laser interferometry. Analyzed and processed data to generate results, implementing correction algorithms to enhance machine performance.

MuLip Lab – Research Assistant

May 2022 – August 2022

Modularize code in micro python to obtain data successfully and efficiently from different microcontrollers to perform machine learning for educational purposes.

Center of Engineering Education and Outreach - Internship

May 2020 – August 2020

Performed research on a new platform integrated into google slides. This platform is used to control an EV3 Lego robot and its purpose is to teach children how to interact with the robot and potentially learn to program it.

Brake Zone – Auto Repair Shop – Technician Assistant

Summer 2017 – 2019, 2021

Performed oil Changes, balancing tires and checking tire pressure. Customer service, invoicing and accounts payable.

SKILLS

- Laser Cutting - Proficient in using Adobe Illustrator and experienced using a laser cutter.
- CAD - Knowledgeable with Solidworks, AutoCad, 3D printing and using 3D printers.
- Programming - Experience with Python, C/C++, Labview, MatLab, HTML, CSS, Javascript. R, and others
- Machine Learning - Proficient in machine learning algorithms and feature engineering.

REFERENCE

Available upon request