

LEV SAUNDERS

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EXPERIENCE

iPhone Hardware Intern

Sep. 2022 – Mar. 2023

Apple Inc.

Cupertino, CA

- Developed/executed procedure for setup of development hardware test racks aiding power management system team
- Designed/executed experiments for stress testing and characterization of mobile device power management systems
- Collaborated across engineering teams to support mission critical failure analysis

Ball Bonder Process Engineering Intern

Sep. 2021 – Mar. 2022

Kulicke & Soffa

Fort Washington, PA

- Collected waveform data from piezoelectric transducers and developed data collection workflow for reliability study
- Designed feature extraction pipeline in Python for collected data for analysis of damped/undamped behavior
- Utilized Python machine learning libraries for waveform classification

STAR Research Student

Mar. 2021 – Sep. 2021

Drexel University

Philadelphia, PA

- Continued Co-op research into machine learning concepts for fabric capacitive touch sensor gesture classification
- Communicated with faculty mentor for effective research direction and efficient model development
- Presented on findings to peers and research administrators

Junior Manufacturing Assistant

Sep. 2020 – Mar. 2021

Drexel Center For Functional Fabrics

Philadelphia, PA

- Implemented machine learning models for gesture classification on fabric capacitive touch sensor
- Collaborated with team of computer scientists, electrical & mechanical engineers for achievement of research timeline
- Captured human gesture data for training of sensor touch classification model
- Aided daily operation and maintenance of industrial warp and weft knitting machines

Student Informatics Assistant I

Apr. 2020 – May 2020

Children's Hospital of Pennsylvania

Philadelphia, PA

- Developed algorithms for creation of massive data sets of simulated patient data
- Applying cloud based development techniques to stimulate collaboration
- Utilizing Python for scripting and statistical analysis

Founder and Owner

Nov. 2017 – Present

Your Favorite Grandson

Philadelphia, PA

- Provide IT services to senior citizens
- Maintain and repair PCs and smartphones
- Articulate high-tech concepts to tech-illiterate clients i.e. use of cloud based services, social media and smartphone usage

EDUCATION

Drexel University

Philadelphia, PA

BS Computer Engineering

2024

Minors in Electrical Engineering and Computer Science

Cumulative GPA: 3.8

RELAVENT COURSEWORK

Comp. Organization & Architecture

Parallel Computing Architecture

Machine Learning

Operating Systems

Modern Processor Design

Design with Microcontrollers

Systems Programming

VLSI Design

Design with FPGAs

Electric Circuits

Analog Electronics

Linear Algebra & Differential Eqns

TECHNICAL SKILLS

Languages: Python (NumPy, Pandas, Matplotlib, Sklearn, TensorFlow), C, C++, Bash, Matlab, VHDL

Developer Tools: Git, Cadence, Vivado

Operating Systems: Linux, MacOS, Windows