

# 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*

## RELEVANT 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