Aaron Wubshet

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EXPERIENCE

AMGEN | Electromecahnical Engineer

June 2024 - Dec 2024 | Thousand Oaks, CA

- Researched electromechanical drug delivery device market focusing on on-body injectors to identify key trends, features, and landscape dynamics
- Built strategic initiatives for Amgen device team to use as input in their feature selection process to boost device adoption by drug teams and patients
- Enacted case studies to demonstrate technical value of temperature modeling and sensing capabilities on an autoinjector through RNN based prediction

BAIN & COMAPNY | Consultant

Sep 2020 - May 2023 | Atlanta, GA

- Built the 3rd party MRO partner strategy, owned a quantitative supply chain network analysis, stood up a cost visibility PMO, and investigated potential volume scale benefits with a for large A&D clients
- Supervised a spend cube analysis for a procurement cost rationalization effort at an IT services firm
- Spearheaded financial modeling and market research (survey based and market participant interview based) workflows while managing multiple direct reports and external stakeholders as part of due diligences primarily in healthcare IT

ASTRA SPACE | Product Manager & Strategy Analyst

June 2022 - Oct 2022 | Alameda, CA

- Built and presented a robust business case to senior leadership evaluating the technical feasibility and market appetite for new solar based space product leverage multidisciplinary inputs from engineering, finance, sales and marketing, and manufacturing
- Collaborated with spacecraft team on vendor negotiations, system architecture, and project management to create an improved, transparent pricing model for the space products division to reduce sales turnaround time

LLNL | Electrical Engineering Research Fellow

June 2019 - Dec 2019 | Livermore, CA

- Investigating FPGA platforms for quantum sensing and control applications including algorithm development and cold dark matter experiment
- Leveraged National Instruments USRP platform and LabView to wrap VHDL code implementing closed loop control a transmon qubit

TRUELINK | Entrepreneur & Maker

Jan 2018 | Kowloon Tong, Hong Kong

- Participated in MEMSI at the MIT-Hong Kong Innovation Node which served as an integrator for hardware based entrepreneurship ventures bringing together multidisciplinary team of management, engineering, and design for 2 weeks to develop a mock-up hardware start up.
- Worked as an electrical engineer along side designers, managers, and researchers to develop TrueLink, a module designed to share and evoke emotion with loved ones over long distances.

DRAPER | Signal Engineering Intern

Jan 2017 & June - Aug 2017 | Cambridge, MA

- Created an artificial local GSM network via GNU Radio & universal software radio peripherals to demonstrate base station to base station text communication using off the shelf consumer cellphones
- Developed and implemented a MATLAB based simulator for aggregate LTE power levels at the physical channel structural level

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Electrical Engineering

Bachelor of Science | GPA: 4.5 | 2019

Master of Engineering | GPA: 4.5 | 2020

Leaders of Global Operations

Sloan MBA | 2025

Master of Science in EECS | 2025

KEY SKILLS & PROJECTS

SKILLS

- HW / SW system integration
- FPGA and circuit design / analysis
- Object oriented programming
- Basic Web Development

PROJECTS

- **JAW Dropping Visual Effects:** Developed real-time audio-visual effects using edge detection algorithms. Led the integration of audio processing, image capture and processing, and modulation systems.
- **A Drone's Eye View:** Created a drone-mounted projector system to turn surfaces interactive. Utilized IR tracking, microcontroller programming, and leap motion gesture recognition for a mobile interactive interface.
- **Speaker Tracking System:** Designed a speaker system that adjusts volume and follows a target. Implemented the system with an Intel 8051 microcontroller and Cypress PSoC.