Aaron Wubshet

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EXPERIENCE

DRAPER | Signal Engineering Intern

Jan & June - Aug 2017 | Cambridge, MA

- Used a universal software radio peripheral (USRP) and laptop set up using GNU Radio to create local GSM network.
- Created a sector level LTE simulator implemented using MatLab to model aggregate power levels with variable input channel propagation models

BAIN & COMPANY | Building Entreprenuerial Leaders Program Particpant

Aug 2017 | Atlanta, GA

- Introduced to strategic consulting and accelerated learning opportunities for prospective consultants
- Worked alongside Bain case team to tackle real Bain client's business issue

MIT CONSULTING GROUP | Treasurer and Technical Consultant

Feb 2016 – Present | Cambridge, MA

- Manage a quarterly budget of approximately $ 20,000 as treasurer while providing clients with a wide array of consulting services including prototype testing, market penetration strategies, employee retention plans, wage matrix evaluation, geographic market analysis, and partnership evaluation.
- Clients range from big tech to start-ups to cash-in-transit

MIT MAKERLODGE | Electronics Team Lead and PR Chair

Feb 2017 – Present | Cambridge, MA

- MIT MakerLodge is an initiative to create a centralized shop training infrastructure for undergraduates to learn how to use shop tools ranging from laser cutters to drill presses to soldering irons.
- Served as the co-head of the electronics training team guiding students through basic a training involving soldering, circuit design, and debugging as well as PR Chair to manage interactions with the MIT community.

PROJECTS

PHOTODIODE AMPLIFICATION

May 2017 - Present | Cambridge, MA

- Worked under Prof Kerri Cahoy in the Space Systems Laboratory as part of the electronics team to create a photodiode ampliciation circuit.
- Utilized on a nanosatellite as a BIST (built-in-self-test) modulue.

SPEAKER TRACKING SYSTEM

Apr - May 2017 | Cambridge, MA

- Created a target following speaker system that turned to face the target as it moved around as well automatically adjusting the volume
- Designed and implemented the system using an Intel microcontroller as well as Cypress PSoC Bluetooth module

NOISE CANCELLATION

Mar - Apr 2017 | Cambridge, MA

- Investigated and simulated noise cancellation methods using basic feedback control patterns as well as designed custom physical speaker system enclosure
- Built circuitry to recreate the simulation results on the physical speaker

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

BS in Electrical Engineering

June 2019 | Cambridge, MA

GPA: 4.3

RELEVANT COURSEWORK

6.302: Feedback Systems and Controls
6.115: Microcomputer Project Laboratory
6.111: Introduction to Digital Systems Laboratory

SKILLS

TECHNICAL

MatLab	•••••
Eagle	•••••
Python	••••
LTSpice	••••
Computer Architecture	•••
Mechanical CAD Software	•••

LEADERSHIP

Cash flow and Accounting	••••
Logistics and Organization	•••
Resource Management	•••••

RESEARCH

RESEARCH LABORATORY OF ELECTRONICS (RLE) AT MIT

Experimentalist under Prof. Marin Sojacic creating transparent displays with nanoparticles dispersed in polymer matrix

COLD MOLECULES AND QUANTUM INFORMATION LAB AT GT

Experimental apparatus designer under Prof. Ken Brown working with laser modulation system to ion trap Ca^{2+}