George S. Crawford-Eng

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Objective

Electrical engineering major with specialization in signal processing and circuit technologies as well as over 4 years of experience as a digital communications intern. Combines the determination of 4 years spent wrangling alpacas with the zealousness and amiability necessary to rapidly pick up new concepts in communications while concurrently conducting research in tactical radio performance and structural health. Seeking an internship in signal processing, especially in avionics, beginning May 2024.

Education

Georgia Institute of Technology | Atlanta, GA   *August 2023 – Present*
Bachelor of Science in Electrical Engineering   Expected Graduation, May 2026
GPA N/A
Bishop Guertin High School | Nashua, NH   *August 2019 – May 2023*
GPA 4.258

Skills

Programming: Java, C, C++, C#, Python, Matplotlib, Seaborn, and Pillow, HTML, MATLAB, MQTT, ZeroMQ, CoAP
Platforms: Windows, Linux (Ubuntu, Debian)
Hardware: Raspberry Pi, Arduino, oscilloscope, spectrum analyzer, Ettus X310, digital attenuator, Spirent Vertex Channel Emulator
Software: VIM, Atom, VS Code, Nano, Eclipse, PyCharm, Android Studio, GitLab
Communication: presentations (large and small audiences), documentation, briefings, parliamentary procedure

Experience

Georgia Tech Aerospace System Design Lab| Atlanta, Georgia   *September 2023 – Present*
Undergraduate Researcher
Advanced Configurations is a division within the ASDL focused on flight physics, systems analysis, subsonic, supersonic, and VTOL configurations.
- Assisting Structural Health group in finding alternative to Nondestructive Inspection (NDI) for JetZero
- Investigating sensor types for prospective SHM architecture

MITRE Corporation | Bedford, Massachusetts   *January 2022 – August 2023*
Digital Communications Intern
Full-time internship at a federally funded research and development center managed by MITRE, a private, not-for-profit organization.
- Expanded lab setup to collect tactical radio performance metrics under emulated fading and path-loss conditions
- Demonstrated how platforms can gather data from 3rd party modules following with the Modular and Open Systems Approach
- Augmented demo platform to collect information from sample modules using set of well-defined protocols
- Integrated received signal data measured using an Ettus X310 using the framework with modified modules

MITRE Corporation | Bedford, Massachusetts   *June 2020 – January 2022*
Future Leaders Intern
Early high school full-time, paid internship through MITRE Bedford focused on promoting leadership
- Expedited workflow for configuring channel simulation model via an internal tool
- Collaborated with other intern to create GUI in python that generated necessary configuration files based on user input
- Demonstrated application of low overhead networking protocols for underwater applications

Liberty Hill Alpaca Farm| Bedford, New Hampshire   *June 2019 – May 2023*
Farmhand
Large animal farm, including 2 horses, 11 alpacas, and flock of chickens
- Ensured wellness of these animals through handling their feed, cleaning enclosures, and assisting in vaccinations

Projects

FY23 Intern Foxhunt   *June 2023-August 2023*
Competitor
7-Week introductory Course to signal processing, in which interns attend lectures, and build a Yagi-Uda antenna, culminating in campus wide hunt for hidden transmitters using NFM and AM using this antenna.
- Collaborated with partner to construct passive phased array, expanded antenna design to include additional director elements
- Team successfully found all 7 receivers in final competition.