Lucas Mun

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Education:

Bachelor of Science, Computer Engineering Degree **September 2016 - Spring 2020**
Virginia Tech, Blacksburg, VA

- GPA: 3.09

Work Experience:

Software Development Intern **June 2019 – August 2019**
Leidos, Chantilly, VA
An internship involving development of tools and programs for geospatial imagery and analysis

- Refactored and improved a JavaScript library for a Java 8 platform
- Incorporated AWS technologies including EC2, S3, CloudFormation, & ElasticSearch (Redis),
- Created a Filesystem in User-Space on Windows for backwards compatibility with RemoteView

GPS Tracking Collar Research Consultant **January 2019 - Present**
Department of Biomedical Engineering and Sciences, Virginia Tech, Blacksburg VA
A research involving design and manufacturing GPS tracking collars for endangered lemur species in Madagascar

- Created timelines and advised the PI on hardware/software decisions of the research.
- Designed the tracking collar using off-the-self electronics, sensors, and power circuitry
- Developed embedded firmware in C++ for an Arduino microcontroller

Undergraduate Researcher – Bio-Sonar Bat Robot **September 2017 - May 2019**
Bio-inspired Science and Technology Laboratory, Virginia Tech, Blacksburg VA
A multi-disciplinary research laboratory developing a bio-inspired bat sonar robot

- Simplified and miniaturized sensors and robotic electronics
- Designed and fabricated power and control PCB using EagleCAD
- Developed a data acquisition system front-end using Arduino Due

Software Developer – Google Scholar Client **September 2016 - Present**
Department of Urban Affairs & Planning, Virginia Tech, Blacksburg VA
A program for tracking faculties associated with Urban Planning across United States and Canada

- Designed web-scraping application using Python to gather data from Google Scholar
- Created a PyQt front-end for user control

Computer Technician Intern **October 2015 – May 2016**
TechZone, Manassas, VA
A retail computer repair location that focused on hardware repairs and computer maintenance

- Repair and troubleshoot consumer electronics such as computers, tablets, and smartphones
- Served customers and delegated transaction

Personal Experiences:

- Reverse engineering high-end ultrasonic microphones
- Building a handheld Raspberry Pi for portable computing and retro console emulation
- Building, maintaining, and using 3D printers
- 3rd Place, MetaCTF 2019
- Amateur Radio Technician Level License – Call Sign KM4ZZK
- Team leader of Mechatronics Club, Virginia Tech

Skills:

Python	Arduino	Surface Mount Soldering
C++	PCB Designing	3D Printing
Raspberry Pi	Microcontroller	Robotics