Aryan Gupta

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EDUCATION

University of North Carolina at Charlotte - Charlotte, NC

M.S. in Electrical Engineering   *Aug. 2020 – Dec. 2022 (Expected)*
   GPA: 4.0 / 4.0

B.S. in Computer Engineering   Minor in Software Systems   Minor in Mathematics   *Aug. 2016 – Dec. 2020*
   Graduated Cum Laude (GPA: 3.573 / 4.000)

WORK EXPERIENCE

Mosaic Computing / Personal Computer Support

System Administrator I   *Feb. 2020 – Present*
- Provided support to the Mosaic managed desktop computing environment
- Oversaw helpdesk support tickets with Tier 3 support
- Packaged engineering applications for deployment on Mosaic desktops

Lead Technical Assistant   *Apr. 2018 – Jan. 2020*
- Managed TAs in work environment
- Conducted interviews for potential TAs and Lab Roamers

Hardware Technical Assistant   *Summer 2019*
- Assisted in managing compute servers used by College of Engineering faculty and students
- Troubleshot lab machines and computers for hardware issues
- Assisted other computing departments in various issues

Technical Assistant (TA)   *Aug. 2016 – Apr. 2018*
- Managed Mosaic computing environment and associated computers
- Assisted engineering students and faculty with computer related issues
- Managed redundant servers for software management and deployment

PROJECTS, RESEARH, AND CREATIVE ENDEAVORS

NASA University Student Launch Initiative   *2019 – Present*
First Place Payload, Second Place Overall
- Designed, documented, and constructed a rocket (LV) with a quadcopter (UAS) payload
- Lead development of computer systems on UAS and LV
- Lead development of camera vision system to detect ice sample location from LV
- Assisted in design of UAS to retrieve a lunar ice simulant sample
- Assisted design of deployment system to eject UAS out of LV during decent

Arduino-based Flight Controller   *Summer 2018*
- Independently designed and constructed an Arduino-based quadcopter
- Implemented custom I^2C library for Arduino Nano to double performance from Arduino libs
- Reverse engineered iBUS protocol to interface with Arduino Nano using logic analyzer

Project Website
http://theguptaempire.net
- Host slew of projects done by me (or partly by me) on my website
- Includes home lab setup, Raspberry Pi smart clock, mechanical keyboard build, and more

SKILLS

Leadership   Troubleshooting   Problem Solving   Communication   Reverse Engineering
Computer Networking   Multithreading   Embedded Systems   Assembly
C++   Python   Linux   ARM   Git   OpenCV   Arch Linux   STM32   Java

EXTRACURRICULAR

Boy Scout, Boy Scout of America   *2008 – Present*
- Assistant Scoutmaster   *Dec. 2019 – Present*
- Eagle Scout   *Feb. 2016*
- Senior Patrol Leader   *2015*

49th Security Division   *Jul. 2018 – Present*
49er Rocketry and Projectile Society   *Aug. 2019 – Present*