**Aryan Gupta**

 Waxhaw, NC  agupta40@uncc.edu  980-666-0648  **** theguptaempire.net/about-me

**EDUCATION**

University of North Carolina at Charlotte - Charlotte, NC *2016 – Dec. 2020 (Expected)*

*Bachelor of Science in Computer Engineering with Minor in Software Systems and Mathematics*

|  |  |  |
| --- | --- | --- |
| GPA: *3.533 / 4.000* | Chancellor’s List: *Fall 2016* | Dean’s List: *Spring 2017, Fall 2017, Spring 2019* |

**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*

* 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 I2C library for Arduino Nano to double performance from Arduino libs
* Reverse engineered iBUS protocol to interface with Arduino Nano using logic analyzer

DC to AC Inverter *Summer 2019*

* Worked with a team to design and fabricate a DC to AC inverter
* Troubleshoot, debug, and resolved issues with custom PCB / circuit design

Home Lab *Summer 2015 – Present*

* Independently implemented a home lab with multiple Linux and Window servers
* Hosted server with HTTPS (Let’s Encrypt® certificate), DHCP, DNS and self-designed protocols

**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

Institute of Electrical and Electronics Engineers Aug. 2018 – Present

49er Rocketry and Projectile Society Aug. 2019 – Present