**Aryan Gupta**

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**EDUCATION**

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

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

GPA: 3.558 / 4.000

Chancellor’s List *Fall 2016*

Dean’s List *Spring 2017, Fall 2017, Spring 2019*

**WORK EXPERIENCE**

Mosaic Computing / Personal Computer Support

*Lead Technical Assistant Apr. 2018 – Present*

* 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*

* Constructed a rocket with a quadcopter payload
* Assisted in design of UAV quadcopter to carry drilling mechanism to drop site
* Lead design and implementation of camera vision to detect drop location from rocket
* Lead design of computer systems on UAV

Arduino-based Flight Controller *Summer 2018*

* Independently designed and constructed an Arduino-based quadcopter
* Self-taught details on PWM, Serial, I2C, and PID
* Designed custom I2C library for Arduino Nano to double performance from Arduino libs
* Reverse engineer 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 resolve issues with custom PCB/circuit design

Home Lab *Summer 2015 – Present*

* Independently implemented a home lab with multiple Linux and Window servers
* Host webserver with Let’s Encrypt® certificate, DHCP, DNS, and other custom servers

**SKILLS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Leadership | Troubleshooting | Problem Solving | Communication | Reverse Engineering |

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| --- | --- | --- | --- |
| Computer Networking | Multithreading | Embedded Systems | Assembly |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C++ | Python | Linux | ARM | Git | OpenCV | Arch Linux | STM32 | Java |

**EXTRACURRICULAR**

Boy Scout, Boy Scout of America *2008 – Present*

* Assistant Scout Master *Dec. 2019 – Present*
* Eagle Scout *Feb. 2016*
* Senior Patrol Leader *2015*

49th Security Division July 2018 – Present

Institute of Electrical and Electronics Engineers Aug. 2018 – Present

49er Rocketry and Projectile Society Aug. 2019 – Present