**Aryan Gupta**

Waxhaw, NC **|** HireMe@gempi.re **|** (704) 249-1595 **|** linkedin.com/in/aryan-gupta

**EDUCATION**

University of North Carolina at Charlotte - Charlotte, NC *2016 – Present*

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

GPA: 3.558 / 4.000

**WORK EXPERIENCE**

Mosaic Computing / Personal Computer Support

*Lead Technical Assistant Apr. 2018 – Present*

* Managed other TAs in work environment
* Conducted interviews for potential Tas and Roamers

*Hardware Technical Assistant Internship Summer 2019*

* Assisted in managing servers used by College of Engineering
* Troubleshot machines for hardware issues
* Assisted other departments in various issues

*Technical Assistant Aug. 2016 – Apr.2018*

* Managed Mosaic computing environment and associated computers
* Assisted engineering students and faculty with computer issues
* Managed redundant servers for software management and deployment

**PROJECTS, RESEARH, AND CREATIVE ENDEAVORS**

NASA University Student Launch Initiative *2019 – 2020*

* 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

GitHub *May 2015 – Present*

* Various other programming projects: github.com/aryan-gupta

**SKILLS**

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| --- | --- | --- | --- | --- |
| 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 |

**OTHER**

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

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

Chancellor’s List *Fall 2016*

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