

# 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  
Relevant Coursework: Multidisciplinary Professional Development

## WORK EXPERIENCE

Mosaic Computing / Personal Computer Support Apr. 2018 – Present  
*Lead Technical Assistant*

- 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
- Troubleshoot 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, RESEARCH, 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

GitHub May 2015 – Present

- Various other programming projects: [github.com/aryan-gupta](https://github.com/aryan-gupta)

## SKILLS

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

OTHER

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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