

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 Apr. 2018 – Present
Lead Technical Assistant

- 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
- Troubleshoot 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, 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

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 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