

MANUEL SWINGLER

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EDUCATION

North Carolina Agricultural and Technical State University

Bachelor of Science in Computer Engineering

Expected graduate in December 2021

EXPERIENCE

Ericsson Jessup, MD

June 2019 - August 2019

Field Technician Intern

- Surveyed worksites to ensure they were safe to work on for the technicians
- Uninstalled and replaced older model antennas with newer models running at 5G speeds
- Taught the new distribution system by GrayBar to technicians and field service manager.

Guilford County Schools (GCS) Greensboro, NC

Spring 2020 - Present

NCAT Middle College Robotics team

- Taught students how to use AutoCAD, program in Java, and construct robots for competition
- Planned and Conducted Outreach Events for the Community to teach about robotic

Johns Hopkins Applied Physics Lab Baltimore, MD

Summer 2015 – Summer 2016

Aspire Program Intern

- Troubleshooted for the campus computer systems keeping them on the campus network
- Mapped Wi-fi access points for current and future building on the campus using Cisco systems

Inheritance of Praise Global Productions LLC. Suitland Maryland

Summer 2019 – Present

Co-CEO and CFO

- Musically I teach vocal lessons, perform at events, compose, and produce music
- Manage investments and financials

PROJECTS

NCAT Hackathon Greensboro, North Carolina

October 2018

Team Lead and Head Programmer

Developed a website using HTML, CSS, and Java for a sleek UI on the front end and a flexible data base. The Website allows customers to locate businesses in the area able to serve them and allow businesses to gain exposure to their communities.

NCAT Hackathon Greensboro, North Carolina

April 2021

Team Lead and Head Programmer

Developed a web application using HTML, CSS, Python, and Java for an easy to use app and flexible data base. The app that would validate covid results and vaccine status maintained on a national level using their name and passport number.

Senior Project Greensboro, North Carolina

Spring 2021

Team Lead and Researcher

For my Computer Engineering Senior Design course I developed a wearable device that would help to monitor the heartrate of people with Inappropriate Sinus Tachycardia (IST) and provide reading of their heartrate and record the data on an IoT server and function with geolocation.

SKILLS

HTML | CSS | C++ | AutoCAD | Java | RobotC | MATLAB | Website development | SQL | Public Speaking Effective Communicator | Critical thinker | Adaptable | Microsoft Office | Project Management

NOTABLE COURSEWORK

Data Structures | Engineering Problem Solving | Programming Languages | Analysis of Algorithms
Electric Circuit Analysis | Digital Logic | Software Engineering

EXTRACURRICULARS

National Society of Black Engineers (NSBE) | Association for Computing Machinery (ACM)
Aggies for Engineering and Community Enrichment (AECE) | North Carolina A&T Fellowship Gospel Choir | North Carolina A&T Pre-Veterinary Club | National Society of Leadership and Success (NSLS)