

Blake Garwood

904-762-8707 | blake@blakegarwood.com | www.linkedin.com/in/blakegarwood

EDUCATION

The Citadel, Military College of South Carolina, Charleston, SC

May 2023

Bachelor of Science: Computer Engineering

GPA: 3.93

Honors/Awards:

- **Distinguished Scholar** - One of eight students of The Citadel's class of '23 who participate in a rigorous academic program to prepare for graduate-level studies.
- **Bernard Gordon Engineering Leadership Scholarship** - Demonstrated not only excellence in the classroom but also potential to become a leader in the electrical engineering profession.
- **Summerall Cup** - Led cadet company as the Academic NCO to achieve the highest academic performance of any of the 21 companies in the corps for the 2021-2022 school year.
- **President's List** - Recognized for outstanding leadership during the 2021-2022 school year.

EXPERIENCE

Mercedes-Benz Vans, LLC

May 2022 - November 2022

IT Data Engineer Intern

- Transformed data into information via cloud computing for business/manufacturing analysts and engineers.
- Ingested data to Microsoft Azure and used KQL in Synapse to provide data for Power BI reports.
- Created business solutions in the form of apps using Microsoft Power Apps.

NASA South Carolina Space Grant

May 2021 - August 2021

Mission Design Undergraduate Researcher

- Worked as a systems-level engineer designing an autonomous rover mission that uses the swarm-style exploration approach of multiple upcoming NASA missions.
- Designed the mobility subsystem of a robot to explore the unknown Martian lava tube environment.
- Established baseline requirements for onboard computing systems.

Oates Energy Inc.

Intermittently: August 2018 - Present

General Technician

- Programmed, wired and installed radio frequency transmitters and water meters.
- Built and maintained office computers.

Advanced Technical Services

May 2018 - August 2018

Computer Repair Intern

- Built and repaired computers for walk-in customers and local businesses.
- Installed custom CCTV systems and serviced POS systems on-site for local businesses.

RESEARCH

Selecting Library Endmembers for Spectral Unmixing Using K-Means Clustering

December 2020

- Assesses the viability of using k-means clustering as a method of selecting a library of endmembers for spectral unmixing of hyperspectral images.

AI for finding Travel Routes for Off-Road Ground Vehicles Using Satellite Images

April 2021

- Attempts to predict travelability of land by ground vehicles using satellite imagery. Paired with a pathfinding algorithm to produce a network of possible travel routes.
- Trained with images from the CRISM spectrometer aboard the Mars Reconnaissance Orbiter, this program attempts to find well-connected landing sites near rocky/mountainous terrain on Mars.

LEADERSHIP

The Citadel, Cadre Platoon Leader

August 2022 - Present

- Introduced first-year cadets to rigorous standards and disciplined lifestyle of the fourth-class system at The Citadel.
- Accountable for daily activity and training standards of 41 first-year cadets and 13 rank-holding cadets.

The Citadel, Company Academic NCO

August 2021 - May 2022

- Served as the peer academic advisor to a company of over 100 college students of all classes.
- Assisted students by creating study groups and matching underperforming students with peer tutors and/or the college academic support center.
- Counseled students, helping them create goals and plan to execute on them.

Tau Beta Pi Engineering Honor Society, Vice President

August 2022 - Present

- Recruited students, scheduled events, coordinated outreach to other on-campus organizations.