



William Weigeshoff
Electrical Engineer

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Skills

Secret Clearance

Python

C

C++

MATLAB

Swift

JavaScript

SystemVerilog

PCB Design

Git

Data Processing

Software Reverse
Engineering

Languages

English

Spanish

References

Carl Boggs

Parsons

carl.boggs@parsons.us, (703) 328-8284

Col. James Squire

VMI

SquireJC@vmi.edu, (540) 464-7548

Col. Mac Baker

VMI

bakerjm@vmi.edu, 540-464-7465

Electrical Engineer with almost 5 years of experience driving technological advancements through innovative Python applications and real-time data optimization. Proficient in C, C++, MATLAB, and PCB Design, with a strong background in spectrum management and signal processing. Passionate about leveraging advanced skills in a dynamic role to foster cutting-edge engineering solutions.

Education

Virginia Military Institute, Lexington, VA

Aug 2020 - May 2024

BS, Electronics and Computer Engineering (ECE)

Deans list all 4 years and graduated with distinction.

Employment history

Electrical Engineer, V2X

Jun 2024 - Present

Dahlgren, VA

- Developed a Python application to calculate free space antenna path-loss, utilizing regional area data inputs.
- Maintained and optimized a live database for real-time spectrum operations, enhancing data accuracy and reliability.
- Collaborated in spectrum management activities, ensuring efficient spectrum allocation and compliance.

2nd Lieutenant, U.S. Army Reserve

May 2024 - Present

Gunpowder, MD

- Recently Commissioned 2LT into the U.S. Army Reserve
- 203 MI Battalion - responsible for Techincal Intelligence collection and analysis
- Supply/Logistics liaison officer for C Co.

Electrical Engineer Intern, Parsons Corporation,
Black Horse Solutions, QRC Technologies

Jun 2021 - Sep 2023

Herndon, VA

- Diagnosed and troubleshot 15+ SDR chips, enhancing system reliability by 20%.
- Develop Python scripts for spectrum analyzers, generating frequency vs. gain graphs to resolve issues.
- Researched GPU-accelerated signal collection devices, increasing processing speed by 30%.
- Designed and implemented test benches to evaluate PCA libraries, enhancing data processing efficiency.
- Worked with cross-functional teams to analyze antenna gain characteristics, improving data accuracy by 10%.

Seasonal Sales Associate, Lowes

Mar 2020 - Aug 2020

Stafford, VA

- Managed the lumber and building materials department during the COVID19 pandemic.
- Enhanced knowledge of construction material and upheld superior customer service.

Full-Time Missionary, Church of Jesus Christ of
Latter-Day Saints

Aug 2019 - Mar 2020

Puerto Rico

- Led humanitarian efforts and spiritual guidance for 500+ individuals in Puerto Rico, enhancing community welfare.
- Repaired generators, plumbing, and electrical systems, boosting operational efficiency and reliability.
- Managed essential service repairs, significantly improving community infrastructure and quality of life.
- Collaborated with local leaders to organize community events, enhancing engagement and support for over 500 residents.

Additional information

AWARDS

- Deans List
- Army Air Assault Badge
- Order of the Arrow - Vigil Member
- Eagle Scout

MEMBERSHIPS

- IEEE, Member
- BSA, Adult Member
- U.S Army Reserves

Leadership

- C Co. S4 officer
- VMI Army ROTC 5th platoon leader
- Missionary – District leader
- Vigil Member, Order of the Arrow, BSA