Will Fete

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EDUCATION

Virginia Tech, College of Engineering (3.54 GPA) **Expected Graduation: Spring 2026**
Bachelor of Science: Computer Engineering
Minor: Mathematics

PROJECTS

InfraRed Radioteletype **January 2024 - May 2024**

- Designed and implemented a modern infra-red radioteletype communication system using Arduino Uno and IR components leading to a full system which achieved transmission up to 10 feet when with 1mA power limit
- Coded TTY and modem functions in Arduino, ensuring compliance with data rates and frequencies
- Performed signal processing tasks, including filtering, amplification, and frequency response measurement, to minimize noise and enhance signal reliability resulting in an increased transmission range

Reflex Measurer **May 2024**

- Developed an interrupt-driven, low-power embedded system on the MSP432P401R microcontroller to measure human reflex times from hitting a push-button after an LED turned on with a error of milliseconds
- Implemented input capture using TimerA and GPIO push-buttons, utilizing non-blocking code to optimize performance and power efficiency up to 30%
- Designed and coded a reflex game, incorporating between 1 and 6 trials and random delays to measure reaction time accurately and average out the scores over the multiple trials

ACTIVITIES

Solar Car Design Team **February 2023 - Present**
User Interface Lead, Former Battery Lead

- Spearheaded the Battery Subteam, gaining hands-on expertise in electrical and battery system design, and testing
- Exhibited strong leadership by inspiring and directing team members to achieve project goals, leading to a 20% increase in performance and operational efficiency and meeting all necessary deadlines
- Collaborated in a dynamic, cross-disciplinary environment, fostering innovative solutions and meeting tight project deadlines, leading to successful competition and a top 12 placement in the Formula Sun Grand Prix

Institute of Electrical and Electronics Engineers: Virginia Tech Chapter **January 2023 - Present**
Member

- Actively engaged with peers and faculty members, fostering personal and professional development
- Participated in technical workshops, discussions, and networking events, enhancing knowledge of cutting-edge industry trends and technologies

Epsilon Sigma Alpha (Service Fraternity) **January 2023 - Present**
Member, Former Recruitment Chair

- Demonstrated a commitment to community service by participating in service initiatives and volunteer projects
- Enhanced university involvement and strengthened connections with peers, contributing to a more vibrant campus community

WORK EXPERIENCE

Target **July 2021 - January 2024**
Service Advocate

- Excelled in managing high-pressure situations by remaining calm, efficient, and guest-focused during peak shopping hours
- Demonstrated exceptional teamwork skills by collaborating with colleagues to ensure smooth store operations, resulting in improved guest satisfaction scores
- Proactively assumed responsibilities, such as handling guest inquiries and resolving issues, contributing to a positive shopping experience for patrons

SKILLS

C++ • C • Javascript • JMP • Verilog • DC Circuit Analysis • Spot Welding • Microsoft Office