

William Powers

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Objective

- I am a highly motivated and skilled computer engineer specializing in embedded system development who is seeking a graduate position where I can leverage my technical signal processing knowledge and hardware implementation experience. My proficient mathematical and computational skills coupled with the ability to implement processing models in actual hardware uniquely positions myself to make significant contributions in designing efficient and reliable solutions that advance the field. My goal is to contribute to a dynamic, fast-paced team by fostering a collaborative environment and driving innovation.

Experience

EMBEDDED SYSTEMS DEVELOPER | CRESIS - UNIVERSITY OF KANSAS **MAY 2023 - PRESENT**

- Developing and deploying embedded radar systems using highly enabled Zynq SoC FPGA's. This position includes hands on experience with Xilinx system design, embedded programming, device driver development, real-time processing, and hardware implementation / validation.

MACHINE LEARNING ENGINEER | UGRA - UNIVERSITY OF KANSAS **JAN 2022 - SEPT 2023**

- Created an algorithmic trading platform to be used for building, testing, and deploying fully automated model driven trading systems. Developing this platform required a large amount of work in data processing, database design, feature engineering, model training and validation, as well as frontend web design.

PLC SYSTEMS & CONTROL INTERN | EXPERITEC AUTOMATION **MAY 2022 - AUG 2022**

- Designed and installed industrial automation and field instrumentation as part of process control systems in large manufacturing facilities. Skills developed include system control hardware design, control flow analysis, PLC configuration, field instrument programming, and overall process control performance analysis.

Education

BACHELOR OF SCIENCE | UNIVERSITY OF KANSAS **AUG 2020 - PRESENT**

- Major: Computer Engineering
- Cumulative GPA: 3.75 | ACT: 32 | SAT: 1480 | GRE Math: 162
- Achievements: Academic Honors, Engineering Honors
- Related Coursework: Digital Signal Processing, Embedded Systems, Signals and Systems Analysis, Communication Networks, Computer Architecture, Electronic Circuits, Software Project Planning

Technical Skills

- **RTL Programming for FPGA's**
- **Zynq SoC Design and Development**
- **Digital Signal Processing**
- **RF System Design**
- **Linux Device Driver Programming**
- **Machine Learning Model Development**
- **AWS Database Design and Management**
- **Web Development with MERN Stack**