

Sean W Jasin

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Education

University of Illinois Urbana-Champaign – *Champaign, IL*

Aug 2022 – May 2026

BS in Electrical Engineering, Minor in Computer Science

Relevant Coursework

- Digital Systems, Electronic Circuits, Fields and Waves II, Analog Signal Processing, Digital Signal Processing, Numerical Methods I, Physics Electricity and Magnetism, Computer Systems and Programming

Experience

Lab Assistant, University of Illinois Urbana-Champaign – *Champaign, IL*

June 2024 – July 2024

- Developed the skills of other students in the problem solving process and uses of microcontrollers and radios
- Helped organizers fix software for allowing student access to computer systems and servers

Sales Development Representative, U of I Foundation – *Champaign, IL*

Feb 2023 – Feb 2024

- Used social skills to connect with hundreds of alumni of the University of Illinois and talked about their experience on campus (UIS, UIC, UIUC)
- Strategically discussed potential ways to support the university's systems and initiatives that the alumni were interested in while effectively accounting for their situations.

Cashier, Warehouse, Online Retail, Item Repair, Value Liquidation Bin – *Aurora, IL*

June 2021 – Aug 2022

- Inventory management - Managed online inventory count and item stock
- Customer interaction - Maintained good standing relation with customers online and in person
- Problem solving - Developed testing stations and did repairs for broken parts
- Development of online retail - Helped develop better workflow for the online retail process

Projects

Sigrok Project ADALM2000

July 2024

Sigrok – a signal analysis toolset

- Quickly designed a prototype sigrok driver for the ADALM2000 without previous background on the codebase
- Developed reverse engineering skills when deconstructing other code on the internet regarding sigrok drivers

Full Body VR Tracking

Nov 2023

A simple and affordable VR tracker

- Developed both hardware and software to track the movements of a person
- Designed and created a prototype with affordability in mind in order to make the technology more accessible

Extracurricular Activities

Illinois Solar Decathlon - Member: Developed net-zero housing and visited previous sites to learn about methods to save energy, costs of building, and costs of maintaining

2024 MHacks Hackathon - Winning team for BAML Agent Track: Developed backend software for an AI powered software development toolkit

Skills

Certification and Operator License: HAM radio license, Technician. Callsign: KE9ADO

Hardware: Personal work with Microchip (AVR), WCH (ARM and RISC-V), and STMicroelectronics (ARM) microcontrollers. Coursework with Xilinx Spartan 7 FPGA and Altera DE2

Programming: Python, C/C++, Rust, Java, TypeScript, Kotlin, and SystemVerilog

Software Suites: Microsoft Suite, Google Suite, and AutoDesk: AutoCAD, Fusion360, and Inventor