

Hasan Al Saeedi

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EDUCATION

University of Illinois at Urbana-Champaign

Champaign, IL

Bachelor of Science in Computer Science

Aug 2023 – May 2026

Cumulative GPA: 3.60/4.0

Relevant Coursework: Numerical Analysis; Numerical Methods; Distributed Systems;
Applied Parallel Programming; Cyber Security I; Communication Networks; Artificial Intelligence

SKILLS

C/C++, Python, ROS 2, SLAM, FreeRTOS, Gazebo, Docker, KiCAD, Networking Protocols, Linux

WORK EXPERIENCE

SIGRobotics

Champaign, IL

Project Lead

Aug 2025 – Jun 2026

- Designed, coded, and published Python API for EarthRover Mini+. Utilized RTSP, Multi-threading, and UART communication protocols.
- Lead development for F1Tenth Competitive Team, made of teams in Perception, Planning, and Control.
- Won 1st place @ SeedStudio, NVIDIA Robotics, and Hugging Face hosted hackathon w/ bi-manual SO101 arms, NVIDIA GR00T VLA Control Policy, finetuned on imitation learning, on Jetson Thor.

National Center for Supercomputing Applications

Champaign, IL

Undergraduate Researcher

Jun 2025 – Dec 25

- Lead research on fractal dimensions of the Arctic regions by using elevation data from the ArcticDEM initiative.
- Created custom Python scripts for collecting, processing, and presenting geo-spatial data, and found 10 stable anchor regions for analysis of fractal dimension changes over time.
- Mentored junior researchers by assisting with data preparation, presentation development, and paper writing.

University of Illinois at Urbana-Champaign

Champaign, IL

Course Assistant - CS 277: Data Structures for Data Scientists

Jan 2024 – Jun 2024

- Utilized Python, Git, and GitHub to create: coding spaces in Prairielearn environment, and practice assignments.
- Supported students in Office Hours and explained difficult concepts to students unfamiliar with computer science.

University of Arizona – CAT Vehicle

Tucson, AZ

Undergraduate Researcher

Jun 2023 – Aug 2023

- Collaborated to design, code, and troubleshoot PLEXE sim. programs while using version control software.
- Filmed videos and demos for the program to showcase work and experiences in the program.
- Presented data and results to Primary Investigator, mentors, and fellow colleagues in the research program.
- Researched a system to confirm Physical Message Veracity in a Connected Autonomous System.

Northwestern University – SHyNE Resource

Evanston, IL

Undergraduate Researcher

Jun 2022 – Aug 2022

- Implemented a custom Python library for populating interactive guides to operate X-ray lab equipment.
- Coded and designed 3 online guides that can be used to operate complex machinery.
- Designed a guide for conducting X-ray Reflectivity experiments using the Rigaku SmartLab Gen. 2 X-ray Diffractometer and got hands-on experience with it and its dedicated software.

Projects

F1 World Driver Championship Tracker

- Developed Python script that utilized custom C code as a Foreign Function Interface (FFI).
- Utilized OpenSSL and Windows socket library to achieve secure network communication with an external API.