

Fiona Smile

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EDUCATION

University of Illinois at Urbana-Champaign

Urbana, IL

Bachelor of Science in Computer Engineering

Aug 2025 – Jun 2028

Relevant Coursework: Embedded Systems, Digital Logic Design, Computer Architecture, Machine Learning, Robotics, Data Structures

GPA: 3.83/4.0

TECHNICAL SKILLS

Languages and Technologies: C, C++, Python, Verilog, MATLAB, TensorFlow, ROS

Tools and Frameworks: Git, Docker, AWS, Arduino, Raspberry Pi, SolidWorks

PROJECTS

[Smart Home Automation System](#) | *Python, Arduino, IoT*

- Developed a smart home system to control lighting, temperature, and security
- Integrated IoT sensors for real-time monitoring and automation
- Designed a user-friendly mobile app for remote control

[Autonomous Robot Navigation](#) | *C++, ROS, OpenCV*

- Built an autonomous robot capable of navigating complex environments using SLAM algorithms
- Integrated computer vision for object detection and avoidance with 95% accuracy
- Deployed the robot in a simulated environment for testing and validation

[FPGA-Based Image Processor](#) | *Verilog, VHDL, Xilinx*

- Developed an FPGA-based image processing system for real-time edge detection
- Optimized hardware design to achieve 30% faster processing speeds
- Implemented a user-friendly interface for configuring image filters

WORK EXPERIENCE

Software Engineering Intern

Jun 2023 – Aug 2023

Motorola Solutions

Chicago, IL

- Developed firmware for embedded systems used in public safety devices
- Collaborated with cross-functional teams to design and test hardware components
- Optimized code for real-time performance, reducing latency by 20%

Robotics Intern

May 2022 – Aug 2022

John Deere

Moline, IL

- Assisted in the development of autonomous farming robots
- Conducted performance testing and debugging of robotic systems
- Presented findings to senior engineers and stakeholders