

Korvan Nameni

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SUMMARY

B.S Computer Engineering Dean's List student at Milwaukee School of Engineering with numerous, diverse, hands-on, team-based project experiences. Skills in Git, Altium PCB design, embedded systems, Quartus FPGA design, Java, Python, VHDL, CSS, JavaScript, Angular, Typescript, Intel FPGAs, HTML.

EDUCATION

B.S. Computer Engineering | Milwaukee School of Engineering | GPA: 3.3 | Expected May 2029
H.S. Diploma | Menomonee Falls High School | Menomonee Falls, WI | GPA: 4.73 Summa Cum Laude
Completed IT dual enrollment at Waukesha County Technical College with honors

TECHNICAL SKILLS

Programming Languages and Development Tools: Python, Java, VHDL, Typescript, Angular, JavaScript, HTML, CSS

Embedded Systems and Hardware Development: PCB Design, Intel FPGAs, Altium, Quartus Prime

Specialized Knowledge: Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Git, Google Suite

INTERNSHIP EXPERIENCE

Intern | Milwaukee Tech Hub Coalition FUSE AI Bootcamp | Milwaukee, WI | June – July 2025

ShelfLens: Invention of an AI solution for a real-world problem in the supply-chain industry.

- Collaborated with a team to formally define a problem statement to help pinpoint a solution.
- Created a solution which focused on reducing labor costs, human error, and after-hours inventory work.
- Hands-free AI-integrated inventory system with object detection to enable fast stock checks and reordering.

Result: Built entrepreneurial skills along with team building and collaboration abilities.

PROJECT EXPERIENCE

Python Project: Create an instant replay system for replaying live high-action sports activity for training purposes using OpenCV (project name: Buffered Instant Replay Recorder).

- Created a custom circular queue structure for efficient high-FPS frame storage without memory overflow.
- Implemented frame-accurate playback controls (pause, step, jump, slow-motion) and automatic clip exporting.

▪ Learn more at: <https://korvane.github.io/Resume-Website/pages/lowLevel.html>

Result: Increased Git proficiency, strengthened OpenCV and data-structure skills through building a functional real-time replay system. View a video demonstration and more details at my resume website.

Portfolio Website Design Project: Design a portfolio website to showcase high-level and low-level engineering projects using HTML, JavaScript, and CSS.

- Programmed using the MVC (Model View Controller) design pattern for organization, allowing for scalable code structure, easier maintenance, and clear separation of data, logic, and presentation layers.
- Contains sections for "featured projects", coursework, high/low level projects, and external links.
- Built reusable DOM-manipulation utilities to generate project cards, images, videos, captions, and links programmatically.
- Learn more at: korvane.github.io/Resume-Website/index.html

Result: Rapidly acquired and applied programming languages to create a dynamic portfolio site, showcasing fast learning and practical problem-solving skills.

FPGA Project: Program an Intel MAX10 DE10-Lite FPGA-based robot car with an editable instruction ROM in VHDL (project name: Instruction Processor).

- Digi-Bot reads the instruction ROM and displays the corresponding instruction on a maximum of 6 7 segment LEDs
- Uses a Mealy machine to iterate through a counter and, in parallel, an instruction set created by the programmer.
- Utilized sequential logic instead of combinational logic, the former having memory-based logic instead of reactive.

Result: Mimicked the essence of the function of a microcontroller (sequential logic) using the Mealy machine. Broadened VHDL, FPGA, and Git proficiency.

MSOE STUDENT ATHLETE EXPERIENCE

MSOE NCAA Track & Field Team | September 2025 – present | 20 hrs per wk

- Balance 2 semester, daily practice, off season training with full class schedule.
- Study, learn, and execute numerous game strategies, mechanics, and systems.
- Practice troubleshooting and problem-solving methods in high stress, real-time competition environment and immediately modify technique accordingly.

LEADERSHIP EXPERIENCE | CO-CURRICULAR INVOLVEMENT | AWARDS

Low-Voltage Team | SAE Formula Hybrid | September 2025 – present | 5 hrs per wk

- Implemented FDCAN on a Microcontroller in C
- Modified and created schematics, routed PCB layouts in Altium

Team Captain | High School Track & Field | June 2025

Field MVP | High School Track & Field | June 2025

Winner | Wisconsin-Dairyland Programming Competition | April 2025

Certification | Microsoft Office Specialist: Associate (Office 2019) | December 2021

WORK EXPERIENCE

Backroom Associate | HomeGoods | May 2024 – February 2025 | 25 hrs per week

Intern | MKE Tech Hub Coalition FUSE AI Bootcamp | June 2025 – July 2025 | 6 hrs per week