

Alexander Nickita, Embedded Software Engineering | Mathematics | Researcher @ Lawrence Technological University

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LINKS

[LinkedIn](#), [GitHub](#)

PROFILE

Embedded Software Engineering student at Lawrence Technological University with a Mathematics minor, specializing in low-level programming, real-time systems, and microcontroller/microprocessor development. Skilled in C/C++, Java, and logic design with a foundation in circuit analysis and data structures. Experienced in applying engineering principles to embedded platforms, with strong problem-solving skills and familiarity with Agile practices, UML modeling, and testing methodologies.

EMPLOYMENT HISTORY

May 2025 — Present	Research Assistant, Lawrence Technological University	Southfield, Michigan, United States
Help principal investigators with experimental design, variable definitions & scope, as well as help to proctor experiments and find subjects. I also mentor and oversee other undergraduate students who participate in research at LTU		
Nov 2024 — Present	Computer Assistant, Southfield Public Library	Southfield, Michigan, United States
Sep 2023 — Oct 2024	Host, Hazel's Restaurant	Birmingham, Michigan, United States

EDUCATION

Jan 2027 — Present	Bachelor of Applied Science - BASc in Embedded Software Engineering, Lawrence Technological University Expected Graduation: May 2027 GPA: 3.55	
Jan 2020 — Jan 2023	Associate's degree in Computer Software Engineering, Oakland Community College Graduated with honors, 3.75 GPA, Magna Cum Laude	

ACADEMIC PROJECTS

Computer Vision-based Identification Application	Lawrence Technological University
Using OpenCV, trained an AI model to be able to distinguish humans from other objects, powered by Tiva C-series embedded microcontroller	
Conveyor System Sensor Implementation	Lawrence Technological University
Led the design and implementation of a microcontroller-based sensor that detects when items are dropped into the disposal area for a can crusher project.	

SKILLS AND CERTIFICATIONS

C/C++	Digital Logic Design
SAFe 6 Scrum Master	Circuit Analysis
Data Structures	Microcontroller Programming

AWARDS

Magna Cum Laude

Oakland Community
College

Phi Theta Kappa member

Oakland Community
College

Admitted member of the Phi Theta Kappa honors society while at OCC

Aug 2024 — May 2025

Dean's List

Lawrence Technological
University

Awarded Dean's List honors in the Fall 2024 and Spring 2025 semesters at Lawrence Tech University.

Virinder K. Moudgil Scholarship

Lawrence Technological
University

Awarded the merit-based Moudgil transfer student scholarship after being accepted to LTU.