

# Maegan Batorek

773-551-7592 | maegan.batorek@valpo.edu

## Education

Valparaiso University, Valparaiso IN

Graduated, May 2021

Bachelor of Science in Computer Engineering

GPA: 3.8/4.0

Bachelor of Science in Computer Science (Double Major)

Academic Honors: Dean's List all eight semesters, Magna Cum Laude

## Work and Related Experience

IT Director, Nivram Management Inc., Lincolnwood, IL

2021 - 2021

- Responsible for security in day-to-day operations of software systems
- Provides technical support for diverse employee base
- Responsible for five different sites

Auto Garden (2 Semester Capstone Project)

2020 - 2021

- Automated home gardening system for novice or seasoned gardeners
- Utilized Bluetooth Low Energy (BLE) for app to microcontroller connection
- Options for user to set a 24-hour cycle for lights and temperature in the greenhouse

Valpo Robotics Club

2018 - 2021

- Key member of *two-time national champion* of collegiate robotic football team league
- Planned, designed, assembled, debugged, and maintained one of eleven football team robots
- Mentored younger students in the development, design, and debugging of their robots
- Served as Public Relations Chair, recruiting new student participants

Racing Drone

2020

- Designed, fabricated, and raced a drone that competed against other university IEEE student groups

Arithmetic Logic Unit

2020

- Designed, simulated, and fabricated an arithmetic logic unit on a printed circuit board
- Populated my circuit board and debugged its operation

Industrial Appliance Controller

2019

- Designed the electronic controller for an industrial oven
- Oven's user interface allowed customer to preselect the cooking profile for their product
- User interface also allowed customer to specify delayed production start time
- Designed and debugged in VHDL with Altera DE2-115 field programmable gate array (FPGA) board

Paint

2019

- Designed, developed, and debugged a drawing application resembling Microsoft Paint
- Created unified modeling language (UML) diagrams to interpret and document the code
- Written in JavaFX
- User interface provides warnings for user to ensure their files are saved and not overwritten

## Professional Development

Institute of Electrical and Electronics Engineers (IEEE)

2019 - Present

Eta Kappa Nu (IEEE Honors Society)

2020 - Present

Tau Beta Pi (Engineering Honors Society)

2019 - Present

## Skills

C	C++	JavaScript	HTML/CSS	VHDL	Cadence OrCAD PCB
PSpice	Quartus II	ModelSim	MATLAB	GNU/Linux	Maple
MySQL	UML	Arduino	Assembly	Git	Ruby