Nathaniel Kessel

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EDUCATION

University of Cincinnati, Cincinnati, Ohio   Expected Graduation: May 2028
Bachelor of Science, Computer Engineering
Miami Valley Career Technology Center (MVCTC), Clayton, Ohio   August 2021 – June 2023
- Practiced rigorous Aviation Maintenance Procedures as prescribed in official FAA documentation, ensuring strict compliance with industry regulations and safety standards

PROJECTS

ESP32 Desk Clock   September 2025 – Present
Personal Project
- Developing a compact ESP32-S3 desk clock featuring an SPI-driven LED display, real-time clock (RTC), and NTP network time synchronization
- Prototyping circuit design and firmware in Arduino C++, with plans to add weather, calendar, and local data integration
- Designed custom PCB for display prototyping, currently iterating on the final integrated board design

Engineering Design Thinking 2   January 2024 – May 2024
University of Cincinnati, Cincinnati, Ohio
- Led a team of four individuals to create a robot capable of navigation to a specified location utilizing ultrasonic and gyroscopic sensors coded in Python
- Managed team cooperation and development to stay on task for the final tests, earning a score above average and staying on track throughout the semester

Engineering Design Thinking 1   April 2023 – December 2023
University of Cincinnati, Cincinnati, Ohio
- Cooperated with a team of four individuals to create a robot capable of movement, lifting, and general navigation utilizing LabVIEW
- Led Code of Conduct development incorporating multiple team building exercises to bring project completion in a timely manner to achieve an 83%, surpassing average

EXPERIENCE

Closing Expert, **Target**, Milford, Ohio   September 2023 – Present
- Balanced an average of 26 hours a week with full-time academic courseload
- Played a key role in the education of employees on understanding store metrics and utilizing them for improved end-of-day organization and performance metrics
- Improved priority fill percentage from an average of 70% to consistently over 85%

Wash Associate, **Mike's Carwash**, Centerville, Ohio   February 2022 – August 2023
- Collaborated with a 3-4 person team for daily tasks and services using task management and teamwork skills

HONORS & AWARDS

National Technical Honors Society   March 2023

SKILLS

Programming: C++, LabVIEW, MATLAB, Python, VBA, Arduino
Hardware & CAD: KiCad 9.0, Fusion360, AutoCAD, LTspice, Multisim
Productivity: Microsoft Excel, Microsoft Office Suite
AVAILABLE TO CO-OP FALL 2026