

Daniel Klevak

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Engineer and system builder focused on IOT, automation, AI, and embedded solutions that work in the real world.

Graduated cum laude with a BS in Computer Engineering. Currently pursuing an MS in Cyber-Physical Systems and building automation tools for small businesses while prototyping voice-based AI interfaces. Background includes embedded systems, machine learning, hardware prototyping, and full-stack automation using tools like Raspberry Pi, ESP32, GPT-4, and n8n. I like shipping real systems fast.

TECHNICAL SKILLS

Computer Languages: C++, C#, Python, Java, R, RISC-V Assembly, SystemVerilog, SQL, C, Rust

Hardware: Microcontrollers, Oscilloscope, Circuit Design, Raspberry Pi, 3D Printing, Laser cutting, Power Tools

Applications: Visual Studio, PSpice, Quartus, Arduino, MATLAB, SolidWorks, Auto CAD, Xilinx Vivado, Premier Pro

Operating Systems: Linux, Windows

WORK EXPERIENCE:

Automation Systems Lead (Founder – Business Name TBD)

May 2025 – Present

- Founded and operate a workflow automation business for MedSpas and private practices, focused on reducing admin load and improving client engagement.
- Build full-stack workflows using GPT-4, n8n, Calendly, Google Sheets, and Twilio, integrating appointment booking, reminders, follow-ups, and review requests.
- First client landed within one week; pipeline expanding via referrals and partner introductions.

Stemwave, Woburn, MA

January 2024-June 2024

Computer Engineering and R&D Co-op

- Researched and tested solutions for measuring force output from high-voltage sparks through a liquid and silicone membrane.(problem solving, prototyping, experimentation)
- Prototyped and designed a diagnostic tool using a Raspberry Pi and an accelerometer, saving \$3,000/month by improving ESWT device output verification.
- Diagnosed and repaired high and low-voltage hardware issues and software malfunctions. Troubleshooting consistent bugs found through feedback from customer service managers. (Oscilloscope, Multimeter, Soldering)
- Designed quality assurance protocols and conducted them on over \$6,000,000 worth of inventory.
- Reverse-engineered software from the device manufacturer to identify and fix issues as well as add additional functionality such as persistence data tracking. (Raspberry Pi, Python, Linux)

Sparx Hockey, Acton, MA

January 2023-June 2023

Electrical and Computer Engineering Co-op

- Created prototypes of potential future products, incorporating electrical systems with LEDs, buttons, and sensors.(product design, prototyping, testing)
- Developed internal tools in C# for efficient data visualization and information display.
- Planned and executed testing protocols for validating current and future products
- Designed data analysis protocols in R for automated analysis and visualization of material test data.

ACADEMIC + PERSONAL PROJECTS

System for Envisioning Environment(Capstone Project)

July 2024- December 2024

- Collaborated with a team of peers to identify, design, implement, and test, a solution that leveraged computer vision, stereovision, and ultrasonic distance sensing to assist the visually impaired(teamwork, leadership)
- Leveraged OpenCV for depth perception as well as AI object recognition models to allow for timely notification via speaker. (AI, computer vision)
- Designed and built an electrical system for powering and controlling speakers, cameras, a Raspberry Pi, and a button (soldering, Raspberry Pi, circuit design)

Remote Deactivated Alarm Clock(Personal Project)

October 2024

- Created a system consisting of two ESP32s which communicated via an HTTP server that prevented an alarm from being deactivated until a button is pressed in another room(communication protocols, wireless communication)

Electro-Cardiogram(Circuits and Signals)

January 2023-May 2023

- Constructed a circuit that utilized instrumentation amplifiers as well as an operational amplifier and used digital to analog conversion to see human heart beat signals in MATLAB(signal processing, op amps, circuit design and verification)

Robotic Arm(Embedded Design: Enabling Robotics)

October 2022-December 2022

- Programmed a robotic arm capable of remote-control movement as well as automatic movement between saved positions using Quartus and a De1-SoC FPGA development board.(embedded programming, robotics)

EXTRACURRICULARS AND INTERESTS

Northeastern TV Director of Entertainment:

- Organized and lead weekly meetings for the club's entertainment department as well as club-wide events.

Interests: Reading, Chess, Video Production, Hiking, History, Civilization VI, Space Exploration, Philosophy

Languages: Russian (Fluent)