

Yuval Munz

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TECHNICAL SKILLS

Programming/Backend: API Integration, Backend workflow automation

AI Systems & Agentic Workflows: OpenAI + Claude API, Prompt engineering, agent systems design, Autonomous tasks pipeline, LLM application

Automation & Integration: n8n, Make.com, Twilio API, Stripe API, Google API

Infrastructure & Data: Supabase, Database design, Workflow logic

Engineering Tools: MATLAB, Solidworks, CATIA, Fusion360, Ansys (FEA & CFD), Design iteration

Prototyping & Testing: Fabrication, machining, sensor calibration, data acquisition, oscilloscope/multimeter use

Systems Integration: Mechanical assembly, hardware validation, powertrain systems

EDUCATION

Queen's University

Bachelor of Applied Science, Mechanical Engineering

Kingston, Ontario

Sept 2024 – Present

EXPERIENCE

Product Intern

Workato

March 2026 – Present

San Francisco, USA

- Built AI driven automation workflows focused on agentic systems and enterprise use cases
- Designed and tested multi step automation pipelines integrating APIs and LLMs

Mechanical Operations Lead & Founder

Queen's Additive Manufacturing Team

Dec 2025 – Present

Kingston, Ontario

- Lead and direct a team of students across multiple concurrent engineering projects as Mechanical Operations Lead, owning technical execution and project strategy
- Engineering an improved tool head swapping mechanism for multi-material 3D printing, and developing an infinite Z-axis printer to enable continuous, unbounded print height

Powertrain Engineer & Gear Reduction/Sprockets Lead

Queen's Formula SAE Racing Team

Sept 2024 – Present

Kingston, Ontario

- Designed and analyzed chain and sprocket drive systems for optimal torque, acceleration, and powertrain efficiency
- Led a team of students to perform FEA/stress analysis under dynamic loads to reduce mass while keeping strength

IT Support Intern

CMiC

May 2024 – Sept 2024

Toronto, Ontario

- Diagnosed and resolved hardware and software issues under tight deadlines, building troubleshooting and documentation practices for ongoing system reliability

3D Printing Intern

3D Factory

Jan 2024 – May 2024

Toronto, Israel

- Designed, printed, tested and iterated prototypes, producing high quality and reliable products for customers

PROJECTS

Pursr | Technical Founder/CTO – Next.js, TypeScript, Supabase, Anthropic API, Twilio

Apr 2026 – Present

- Built and shipped a live B2B SaaS platform (pursr.vercel.app) that captures audit ready documentation for Canadian engineering teams claiming SR&ED R&D incentives
- Engineered AI evidence classification and gap detection on the Anthropic API, plus a multi channel nudge system over SMS (Twilio), Slack, and Teams

Actiograph | Founding Engineer/CTO – React Native, Expo, Supabase, Next.js

May 2026 – Present

- Built and shipped a React Native/Expo app for pre-med students to track extracurricular hours, log reflections, and assemble their OMSAS application; distributed via TestFlight
- Designed and built the launch landing page solo (Next.js, Tailwind, Framer Motion) with an interactive animated hero, running product validation ahead of first users

Campus Cravings | Founder & Operator – Twilio, Make.com, Stripe

Sept 2025 – Present

- Built a late night food delivery service for university students, designing and operating all logistics and workflows
- Engineered a fully automated ordering and payment system using Twilio (SMS), Make.com (automation), and Stripe (payments). API linked workflow handles orders, confirmations, and payment with no manual intervention
- Integrated webhook handling to connect SMS flows with backend processing, achieving reliable live operations

AI Intelligence Research Agent | *Claude API, n8n, APIs, Python*

Feb 2026 – Present

- Built a multi agent AI system that autonomously conducts network focused research, from data collection to structured technical outputs using orchestrated workflows in n8n

AI Agent Automation System | *OpenClaw, Claude, APIs, Local LLM, Automation*

Feb 2026 – Present

- Built and deployed a local multi-agent AI system on a Mac Mini running 8 specialized agents (Scout, Researcher, Builder, Outreach, Scheduler, Learner, Reporter, Orchestrator) to fully automate lead sourcing, research, website generation, and outreach for a web agency targeting local businesses
- Engineered agent workflows using Claude API (Sonnet for builder, Haiku for lightweight agents) and Telegram as a secondary operator interface

SMS Automation | *Make.com automation, Twilio + Stripe API, Webhook Handling*

Jan 2025 – Apr 2025

- Designed a SMS to payment pipeline using Twilio (inbound/outbound SMS), Make.com (workflow logic), and Stripe (payment processing). Automated the full order lifecycle from customer text to payment capture with webhook event handling

Energy Efficiency Solution for Rivian R1S, Independant Project

Oct 2025 – Jan 2026

- Built a energy saving product for the R1S by designing a lightweight insulated partition that creates a smaller rear cabin zone for winter Camp Mode. Reduced HVAC energy use by 40% & increased heating speed by 200%

ALSO TM-B Inspired E-Scooter

Jan 2026 – Feb 2026

- Designed an e-scooter, optimizing frame structure, joint interfaces, and material selection for durability

Sprocket Topology & Mass Optimization, Formula SAE | *Solidworks, FEA, MATLAB*

Nov 2025 – Jan 2025

- Developed optimized rear sprocket geometry for FSAE electric drivetrain using topology optimization and iterative mass reduction while maintaining stiffness under torque loads. Reduced sprocket mass by 30%
- Conducted FEA to evaluate stress distribution, deformation, and fatigue life under acceleration, regenerative braking, and dynamic load cycles

Drivetrain Optimization, Formula SAE | *MATLAB/Excel Simulation, Chain Dynamics*

June 2025 – Nov 2025

- Modeled and simulated drivetrain configurations for the EMRAX 188 HV motor, analyzing trade-offs between acceleration, efficiency, and top speed
- Performed FEA and thermal stress analysis to validate torque transmission and sprocket design under load
- Recommended optimized gear ratios, reducing drivetrain mass and improving torque transfer efficiency by 12%

Off-Road Racing Steering Wheel, Baja SAE | *Machining, CAD, Ergonomic Analysis*

Jan 2025 – Apr 2025

- Designed and fabricated an off-road steering wheel using ergonomic and mechanical performance factors
- Performed stress and deformation analysis using FEA to ensure structural reliability in off road conditions