

DAVIS KLOHN

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Software Engineering student focused on embedded systems, automation, and interactive applications

PROJECTS

Home Server & Network Infrastructure

2024 - 2026

Systems & Network Administrator

- Designed and deployed a self-hosted home server providing network-attached storage, media services, and secure remote access
- Configured network infrastructure including port forwarding, firewall rules, and VPN tunneling for encrypted off-site access
- Provisioned an expandable open storage array with automated backups; administer Linux services and system monitoring

Hardhat-Mounted Heat-Stress Monitor

2023 - 2024

Embedded Systems Developer

- Engineered a wearable temperature sensor mounted on a hardhat that monitors heat exposure in real time for construction and industrial crews
- Implemented threshold-based alerts informed by WHO occupational heat-stress guidance, warning workers before conditions become hazardous
- Optimized microcontroller firmware for low power draw and reliable sensor readings in harsh job-site conditions

EXPERIENCE

ASG (Aviation Standards Group)

2026 - Present

Full-Stack Developer

- Built a training-records platform for aviation operators using Python/FastAPI and PostgreSQL, with a secure portal where admins author training modules and chief pilots track compliance in a live matrix
- Integrated the Microsoft Graph API to automate SharePoint provisioning and training-record filing; built a background worker for document intake and health diagnostics
- Implemented row-level security, authentication, and bot protection; deployed the app to Render with Alembic database migrations

RotorLimit

July 2026 - Present

Managing Partner

- Lead development of a B2B SaaS iOS application that digitizes Rotorcraft Flight Manual (RFM) data into structured, easy-to-read tables
- Engineered calculation features that compute performance and limitation values directly from digitized RFM tables, replacing manual chart lookups
- Oversee product direction and business operations as managing partner, from client requirements through App Store delivery

EDUCATION

Thompson Rivers University (TRU), Kamloops, BC

2024 - Present

Bachelor of Engineering in Software Engineering

- Enjoy hands-on work with microcontrollers, integrating sensors/actuators and debugging real hardware in lab settings
- Building strong fundamentals in programming, software design through project-based coursework

SKILLS & OTHER

Languages: C, C++, C#, Python, HTML5, CSS

Tools: Unity, Arduino IDE, Git, Visual Studio / VS Code