

Rushil Vislawath

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EDUCATION

University of Utah

Salt Lake City, UT

Concurrent Enrollment: Calculus II, Calculus III, Discrete Math

Hillcrest High School

Midvale, UT

IB Diploma Programme, GPA: 3.99/4.00

EXPERIENCE

Embedded Systems Intern

May 2026 – Present

Kairos Autonomi

- Worked with the UxV/35 standard to design and implement embedded control logic for automated, GPS-guided drone systems, contributing to reliable autonomous flight behavior
- Produced and deployed 30+ target drones for counter-UAS training exercises supporting the United States Marine Corps, coordinating pre-flight builds, field testing, and on-site troubleshooting to keep exercises on schedule
- Wrote C++ control software for onboard flight computers, handling sensor processing and autonomous waypoint navigation logic

PROJECTS

Long-Range Autonomous FPV Fixed-Wing Aircraft | ArduPilot, APM 2.6

Jan. 2024 – Present

- Engineered a long-range autonomous fixed-wing FPV aircraft capable of GPS-guided waypoint navigation using ArduPilot firmware running on an APM 2.6 flight controller
- Integrated FPV camera and video transmission system with onboard telemetry to enable real-time situational awareness and remote monitoring of aircraft systems during autonomous missions

Navda: AI + Automation Tools for Air Traffic Control | React, Flask, Cesium

Sep. 2025 – Oct. 2025

- Best AR/VR Hack at PennApps XXVI for developing comprehensive ATC system with 3D aircraft visualization to address outdated tower systems and controller shortage
- Built React + Vite frontend with Tailwind CSS and Flask backend deployed on Netlify and Render, integrating Auth0 for secure authentication and Supabase for real-time data storage of flight information
- Created watchlist feature allowing air traffic controllers to monitor specific flights and receive automated alerts for critical aircraft status changes
- Developed intelligent flight strip management system using Cerebras AI low-latency inference with Langchain and Google Speech-to-Text API to automate paper strip updates through voice commands, reducing manual workload

Analyzing Cells to Detect Acute Lymphoblastic Leukemia Using ML | Python, AI

Nov. 2023 – Mar. 2024

- Developed a computer program that analyzed images of Acute Lymphoblastic Leukemia and classified them as cancerous and non-cancerous using AI
- Curated and processed 15,000+ test images from multiple databases to train the AI model
- Achieved 86% model accuracy rate detecting cancer in the test dataset

PiHeart: Wearable Heart Rate Monitoring Device | Raspberry Pi, Python

Nov. 2022 – Jun. 2023

- 1st Place at Utah Pi Thon Product Development Challenge for developing Raspberry Pi-based heart rate tracking system to monitor health and alert users of dangerous heart rate levels
- Developed wearable device that detects heartbeat using pulse sensor and ADS1115 ADC module, alerts wearer of heart rate irregularities via active buzzer, and displays real-time BPM on 7-segment display
- Integrated Ublox NEO-6M GPS module with geopy geocoding to retrieve and broadcast user location coordinates to emergency services during medical emergencies, achieving 95% prediction accuracy

SKILLS

Programming: Python, Java, JavaScript, HTML, CSS, SQL, C++

Frameworks/Tools: React, Flask, Tailwind CSS, Vite, Git, Supabase, Firebase, PostgreSQL, Langchain, Cesium, Cerebras AI, PyQt5, Folium, Raspberry Pi, Auth0, ArduPilot, APM 2.6, Matek Systems, ZOHD Flight Controllers, PX4