Krish Singh

346-399-2041 | krishksingh07@gmail.com | LinkedIn | GitHub | Portfolio

EDUCATION

Texas A&M University | B.S. in Computer Engineering **May 2028 | Major GPA: 3.5 / 4.0**

Relevant Coursework: Calculus I, II, III, Computer Architecture, Data Structures & Algorithms, Digital Systems Design

Member: Sounding Rocketry Team (Avionics), TAMU Turtle Robotics, IEEE, Aggie Coding Club, Aggie AI Society, MTT-S

EXPERIENCE

Boeing **Jun. 2026 – Present**

Hardware Quality Engineering Intern *Houston, TX*

- Architected and deployed a **cloud-based system** that modernized legacy quality systems, automating metric calculations across **5000+** production data tables, cutting manual analysis time by **75%**.
- Drove program-wide adoption across **60+ programs**, capturing ad-hoc quality information flows into a single system used daily by **50+ quality engineers and specialists across various locations**.
- Designed and built a **local AI RAG and memory system** enabling natural-language search answering in seconds.

Velostics **Apr. 2026 – Present**

AI Engineer *Houston, TX*

- Architected the **Velostics Engine**, an agentic automation logistics platform housing email, booking, voice, and browser agents that replaces manual data-entry workflows, supporting **100,000+** shipments annually for enterprise clients.
- Delivered a **40% increase in appoitment booking efficiency** w/ custom LangChain architecture and deterministic workflow creation on Cloudflare saving **7-figure clients** an estimated **320+ hours a week** in manual processing loads.

Chai **Jun. 2025 – May 2026**

AI Automation Engineer *Houston, TX*

- Developed context retentive voice and browser automation agents with access to database, API, and ERP systems.
- Pioneered the transition to agentic development, serving **6-figure customers** and handling high-volume data loads.

Rice University **Jun. 2024 – Aug. 2024**

Embedded Systems Research Intern *Houston, TX*

- Engineered a wearable health microcontroller device using **PCB design** and **C++** while developing **OpenCV** pipelines and a machine learning prediction model correlating physiological signals with early detection for Vitamin D deficiency

PROJECTS

EDEN | *ROS 2, Python, C++, NVIDIA Jetson Orin, LLaMA 3.2* **Aug. 2025 – Present**

- Co-developed a humanoid robot prototype, with **ROS 2** and on-board ML (NVIDIA Orin Nano), for motor control.
- Implemented **YOLO** for object detection and **LLaMA 3.2 (VLM)** for frame understanding and decision-making, creating a cognitive layer that lets the LLM's reasoning directly drive action quality.
- Utilized **ROS MCP** and **TurtleSim** to validate kinematic algorithms and control logic before hardware deployment.

I.D.R.O.N | *C++, PCB Design, ESP32, Geiger Circuit Technology, CNC Milling* **Jan. 2023 – Apr. 2023**

- Designed a portable solar-powered radiation detector using expanded Geiger circuit technology and **ESP32** boards.
- Executed end-to-end hardware development including **PCB design**, **CNC machining**, and **3D modeling/printing**; developed optimized **C firmware** for low-latency sensor processing, securing **1st Place** at Texas TSA Conference 2023.

LEADERSHIP

Robo-Colts #9478 **Jun. 2023 – May 2025**

Founder, Team Captain & Technical Lead *Houston, TX*

- Spearheaded all operational, technical, and business functions for a community FRC robotics team built from the ground up; directed founding and secured over $70,000 for engineering design and programming human-sized robots.
- Programmed real-time autonomous path adjustment and context learning using **PID and computer vision**.

Merch **Jun. 2025 – Present**

Co-Founder & Lead Developer *Houston, TX*

- Launched a user-powered freebie app to 5,000+ users with **200,000+** delivered notifications and 1000 peak concurrent users, powered by **Supabase (SQL)**, reaching 8+ colleges, 5 small businesses, and 300,000+ freebie views nationwide.

Technical Skills

Robotics & Controls: ROS 2, ROS MCP, TurtleSim, Gazebo, PID Control, Odometry, Swerve Kinematics, G-Code, NVIDIA Jetson Orin Nano, Raspberry Pi, ESP32, Google Coral, PCB Design, I2C/SPI/UART, Fusion360, SolidWorks
AI & Computer Vision: Claude Code, Codex, Cursor, PyTorch, TensorFlow, OpenCV, YOLO, LLaMA 3.2 (VLM)
Languages & Frameworks: C++, Python, C, JavaScript/TypeScript, Java, AWS, GCC, OCI, SQL, Git, Node.js