Arjan Gupta

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Education

Worcester Polytechnic Institute
Master of Science in Robotics Engineering, GPA: 4.00/4.00 — August 2022 - December 2027

University of Kansas
Bachelor of Science in Computer Engineering, Mathematics Minor — August 2013 - May 2017

Work Experience

Lindsay Corporation — Olathe, KS (Hybrid)
Embedded Software Engineer II — December 2021 - present

- Enhanced the firmware on the Smart Pivot to use GPS-path planning over MQTT
- Mentored entry level engineers and interns, guided them with debugging and profiling tools
- Served as a technical lead on Smart Pivot main UI panel, responsible for the entire software stack
- Developed wrappers for drivers to support on-board chips and sensors
- Completed a hardware & firmware replacement of Sub-GHz mesh network on a legacy product

AGI SureTrack — Lenexa, KS (Hybrid)
Embedded Software Engineer I & II — October 2019 - December 2021

- Helped maintain LiDAR product with a 3 DoF robotic arm for grain inventory management
- Coordinated engineering work as a team lead, guided productivity and helped meet milestones
- Owned the product development and commercial launch of a new IoT Gateway product
- Designed and implemented backend web-services for automated firmware updates

ZOLOZ — Kansas City, MO
Software Engineer — June 2017 - October 2019

- Developed and maintained biometric matching systems for a 2 DoF camera (pan-tilt)
- Implemented and optimized C++ image scaling and compression algorithms
- Supported the R&D department to fine-tune several computer vision models for object detection

Technical Skills

Programming Languages:	C, C++, Python, TypeScript/JavaScript, SQL, Bash
Robotics/AI Frameworks:	ROS, Gazebo, OpenCV, PyTorch
Development devices:	Raspberry Pi, NVIDIA Jetson Nano, Arduino, ESP32
Operating Systems:	Linux, Windows, FreeRTOS, Android
Microcontrollers:	NXP (MK70, IMXRT1064), PIC18, ATmega2560, ATTiny85

Course Certificates

Coursera
Neural Networks and Deep Learning — Issued May 2023 | Credential ID R6Q353L77JC6
Machine Learning — Issued Aug 2022 | Credential ID KKFMWZ7WZCF7

Udemy
YOLOv7 YOLOv8: Deep Learning — Computer Vision 2023 — In-progress