ARJAN GUPTA

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WORK EXPERIENCE

Lindsay Corporation   Olathe, KS
Embedded Software Engineer II   December 2021 - present

- Mentored entry level engineers and interns, guided them through the development process
- Currently a team lead for a microcontroller replacement project on Smart Pivot main UI panel
- Collaborated with electrical engineering and web development teams to make product decisions
- Coordinated a shift from in-house version control to cloud-based GitLab hosting
- Enhanced the firmware on the Smart Pivot main UI panel to support MQTT comms
- Aided in the board bring-up of the Smart Pivot tower board
- Collaborated in porting the Tower Board firmware from one NXP microcontroller to another
- Developed wrappers for drivers (e.g. SPI, UART) to support on-board chips and sensors
- Completed a hardware and firmware replacement of Sub-GHz mesh network functionality on a legacy product

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

- Coordinated engineering work as a Team Lead, guided productivity and helped meet milestones
- Owned the product development and commercial launch of a new Gateway product, for new revenue
- Helped maintain LiDAR product, where a major portion of the Gateway code was re-used
- Oversaw firmware development for Portable Auger product
- Implemented on-site diagnostics for device installation and connection diagnosis
- Designed and implemented backend web-services for automated firmware updates
- Proved and integrated 3G and 4G cellular IoT capabilities of the Gateway product for wider sales

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

- Developed and maintained camera-capture and biometric matching systems
- Supported several all-day data collection sessions in KS and OH as the sole on-site engineer
- Implemented and optimized C++ image scaling and compression algorithms
- Supported the R&D department to fine-tune several computer vision models for object detection
- Traveled to New Delhi, India to assist the integration with major payment services app called Paytm

TECHNICAL SKILLS

Programming Languages:	C/C++, Python, TypeScript/JavaScript, SQL, Bash
Microcontrollers:	NXP (MK70, IMXRT1064), PIC18, ATmega2560, ATTiny85

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

CERTIFICATES

Coursera

Neural Networks and Deep Learning   Issued May 2023 | Credential ID R6Q353L77JC6

Machine Learning   Issued Aug 2022 | Credential ID KKFMWZ7WZCF7