YANG WANG

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196 Tiber Way ◇ St Charles, MO 63301

EDUCATION

Purdue University, West Lafayette Aug. 2015 – Jun. 2021
Ph.D. in Electrical Engineering
Thesis: Design and Implementations of Open-Source Ag IoT Devices for Farm Machinery Data Acquisition and Integrated Analytics

Purdue University, West Lafayette Aug. 2010 – Dec. 2014
B.S. in Electrical Engineering

EXPERIENCE

Climate LLC Nov. 2022 – Present
Senior Data Scientist *St Louis, MO*

- Lead the development and the release of a production Python package that processed ag machine data with an image processing technique into a geospatial layer that was validated to be more accurate and efficient to use than the existing production layer.
- Collaborated with members from cross-functional teams. Designed, implemented, and demonstrated a new customer-facing feature in a PDF report form in a 2-month time span.
- Identified potential speakers across the org as a tech talk committee member to coordinate with presentation schedules and facilitate talks.

John Deere Intelligent Solutions Group Jul. 2021 – Oct. 2022
Senior Navigation Engineer *Torrance, CA*

- Refactored legacy codebases and improved navigational algorithms for weak GNSS signal environments.

Purdue University Aug. 2015 – Jun. 2021
Graduate Research / Teaching Assistant *West Lafayette, IN*

- Performed extensive research in processing GNSS tracks from ag machinery with Kalman filtering and spatiotemporal clustering algorithms for harvest productivity analyses across multiple years and machines.
- Well-versed in reverse-engineering ISOBUS/CAN data for contextual information extractions and analytics.
- Architected and developed an open-source telematics unit for automatic CAN/GNSS/video data collection based on Yocto Linux. Deployed 10+ such units domestically and internationally through coordinations with growers and machine operators.
- Presented various posters and presentations in various academic symposiums and ASABE conferences.

Spensa Technologies Inc. (Acquired by DTN) Jan. 2015 – May. 2015
Embedded Systems Engineer *West Lafayette, IN*

- Implemented embedded firmware for new base station launch.
- Assisted in new base station adapter board PCB design and layout.

CORE COMPETENCIES

Programming Languages	Python, C, C++, MATLAB, Shell, LaTeX, Java, Javascript
Programming Tools	Geospatial suite (geopandas, shapely, pandas, numpy)
Parallel Processing	PySpark
Programming Environments	Vim, Visual Studio, Android Studio, Vector CANoe
Embedded Systems	Yocto Linux, Android, ISOBUS VT
Version Control Systems	Git, Team Foundation Server
Network & Messaging Protocols	CAN, J1939, ISOBUS, MQTT, Kafka
Databases	MySQL, TimescaleDB
Languages	English and Mandarin (fluent), French (limited)