

Xiaojun 'Tony' Li

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EXPERIENCE

R&D Manager, Software | GOTION INC

2021 – present | Fremont, CA

- Define road map and lead software development for ASIL-C BMS.
- Grow the team by 5X, lead 10 engineers globally.
- Manage software platform, CI/CD for 30+ developers and 10+ projects.
- Lead the cloud AI algorithm development for EV and ESS.
- Manage battery life cycle and performance test, data acquisition.
- Interface and manage 3rd part suppliers.
- Manage R&D collaboration with universities.

Sr. Software Engineer/Team Lead | GOTION INC

2018 – 2021 | Fremont, CA

- From the 1st BMS software to production vehicles on the road.
- Team Lead and scrum master for the US software develop team.
- Build a cloud data platform for batteries.
- Develop ML models for battery anomaly detection and state-estimation.

Software Engineer II | ROCKWELL AUTOMATION

2017 – 2018 | Twin City, MN

- Develop software for a new generation motion control product

Energy Storage Researcher | TEXAS A&M UNIVERSITY

2012 – 2016 | College Station, TX

- Design & develop of a 100KWh, 140K cycle kinetics battery prototype.
- One of the largest in the world. Project received over \$1M fund
- Build data acquisition, diagnostics system for turbo-machineries

A.I. Researcher | S. CHINA UNIV OF TECH

2010 – 2012 | Guangzhou, CN

- Implement neural networks on embedded system

RECENT PATENT & PAPER

- [1] wireless battery management system (disclosure)
- [2] battery data analysis method and platform (disclosure)
- [3] apparatus and method for battery state of charge estimation (disclosure)
- [4] apparatus and method for battery state of health estimation (disclosure)
- [5] provisional patent for energy storage system(app no. 63/023,860)
- [6] FPGA control system development platform (no.102591200)

- [1] "Onboard Battery Pack State of Charge Estimation Using a Cloud-Trained Neural Network," Mathworks Automotive Conference 2022
- [2] "Data-driven Thermal Anomaly Detection for Batteries using Unsupervised Shape Clustering," IEEE ISIE 2021
- [3] "Voltage-Based State of Charge Correction at Charge-End," VPPC 2021
- [4] Book chapter, Thermal, Mechanical, and Hybrid Chemical Energy Storage System, Elsevier

SUMMARY

- Technical lead specializes in software, data and control for energy systems.
- Love to innovate: 5+ patent/disclosure and 15+ papers
- Built a [data platform](#) from scratch for battery analysis and machine learning
- US green card

EDUCATION

Ph.D. Engineering

TEXAS A&M UNIVERSITY

MSc. Robotics (AI focused)

SOUTH CHINA UNIVERSITY OF TECHNOLOGY

CERTIFICATION

Certified ScrumMaster | [Scrum Alliance](#)
Functional Safety Engineer | [Tüv Süd](#)
Embedded Coder for Production Code Generation | [Mathworks](#)

SKILLS

Software

C/C++, Python, Git, Jira/Confluence, CI/CD

Data

NumPy/SciPy, TensorFlow, Sklearn, Sql, InfluxDB, Hadoop, Airflow, Grafana, AWS

Automotive

APQP, 8D, AUTOSAR, Functional Safety, dSPACE, ETAS & Vector Tools

Modeling

MATLAB/Simulink (MBD), Embedded Coder, Solidworks, Ansys

AWARD

Technical Innovation Award | [Gotion Inc](#)
Best Performance Employee | [Gotion Inc](#)
Engineering Department Travel Award | [Texas A&M University](#)
Charles W Crawford Graduate Fellowship | [Texas A&M University](#)
Altera Digital Design Contest | [Altera Shanghai](#)