



Sam Lu (CHAO-CHUNG LU)



1985 | Taiwan | Male
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🎓 Master of UK, Brunel Uni. Major in mechanical engineering. Engaged in the manufacturing industry for more than 10 years. Served in design company, OEM factory and certification company. Specialize in NPI and supply chain development and management. Design SPECs, test plan and conducting tests. Established a commercial company. Partnered with a connector Factory. Interested in pursuing a career in the software industry.

Projects and Technologies Applied

Forum

A forum able to login, favorite, comment, like, get real-time ranking and latest updates.

- Full Stack app
- Express (Node.js)
- Postman for API
- MySQL CRUD
- Facebook, Google OAuth2
- AWS deployment
- RDS database
- codepipeline CI/CD

Coffee Talk

Twitter basic functions

- Frontend-Backend separated app
- 4-person group project
- React; Express (I am backend)
- MySQL CRUD
- Deployed on GitHub Pages and Render.com
- GitHub CI/CD

Expense Tracker & Beverage POS

two apps on an Azure VM

- mongoDB
- Ansible
- Nginx
- GitLab CI/CD
- Docker
- Azure VM

Card Game

- Static Website + DOM

Work Experience

🏢 PLUM INC (USA) 📅 2018 Jun.- 2022 Oct. | Reliability Engineer & Site Manager

1. Lead supplier audits and get Bosch's order and investment by robust supplier chain design, completed PPAP, coherent FMEA and PFMEA.
2. Reduce cost at NPI stage 15% by defining reasonable component specifications and qualified by customized tests.
3. Design test plan, set up a local test dept. to Increase YPR(First Pass Yield) from 60% to 90%.
4. Second and local parts sources development to reduce around 8% cost after first MP stage.
5. Summarized CM and supplier feedback and transfer into design changes to remove NG risks.

🏢 協益電子 📅 2016 Sep.- 2017 Dec. | Supplier Development Engineer and SQE

1. Sourcing of mechanical and electrical parts like: LCD, touch panel, connector and cable, motors, hinge, insulating foam, package, power supply, PCBA, coating, pressure tank.
2. Establish test team, venue planning, define equipment spec and purchasing, test plan design, test method and documentation, training.
3. DFM to increase FPY and comply with UL, FCC/IC, CE requirements DVT stage.
4. Technician representative during local field service in the USA.

🏢 UL (Underwriters Laboratories) 📅 2012 Feb.- 2016 Sep. | Certification Project Engineer

1. Conducted safety evaluations of lighting devices and served as a UL safety construction and test seminar instructor.
2. Lead KAIZEN competition, 2013 & 2014 1st. award.
3. Coordinated the 2016 CBTL scope audit and expansion.