

Po (Eric) Peng

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Education

University of Washington

09/2025 – 06/2027

M.S. Electrical and Computer Engineering

Seattle, WA

- Coursework: Computer Architecture, Operating System, Distributed Systems, Computer Vision

National Taiwan University of Science and Technology | GPA 3.92 / 4.3

09/2018 – 08/2020

M.S. Electrical Engineering (Mobile Communication Specialization)

Taipei, Taiwan

Chang Gung University | GPA 3.7 / 4.0

09/2014 – 06/2018

B.S. Electrical Engineering, Division of IC Design

Taoyuan, Taiwan

Skills

- **Programming Languages:** C/C++, Python, Java, Shell Scripts, JavaScript, Verilog
- **Embedded Systems:** Linux kernel, Zephyr, MCU, Bootloader
- **Protocols:** TCP/IP, I2C, UART, Ethernet, Zigbee, Modbus, CAN bus
- **Software Development:** GitLab CI/CD, Docker, Jira, Git, SQLite, Makefile, SDLC

Work Experience

Moxa

06/2021 – 10/2024

Embedded Software Engineer - R&D

Taipei, Taiwan

Designed embedded Linux and bare-metal firmware, delivering robust, user-friendly, world-class industrial connectivity solutions

Protocol Gateways (based on Linux) - Achieved USD 3M/year revenue with +10% YoY growth

- Led modularization of the IEC 60870-5-101/104 protocol stack for [MGate 5192](#), significantly reducing integration time for new products by over 50% through close collaboration with UI/UX, PM, and SQA teams
- Designed and implemented a proprietary CAN protocol module from scratch, covering main communication, backend infrastructure, data exchange, diagnostics features, and all related peripheral software modules
- Built a full-stack [MGate 5216](#) solution, facilitating customer adoption and reducing debugging time by 90%
- Improved the RESTful library for MGate 5000 series via IPC-based design, reducing API development time by 20%
- Designed the SD card backup module for MGate 5000 series, independently resolving issues via Linux kernel analysis
- Developed unit tests and valgrind scripts for MGate 5000 series software modules integrated with GitLab CI

Media Converters (based on MCUs)

- Led the full-cycle software development of [IMC-P21A-G2](#) (Ethernet-to-fiber), coordinating with cross-functional HW, PM, and SQA teams from project kickoff to successful market launch
- Resolved communication issues for Japanese clients on [ICF-1171I](#) (CAN-to-fiber) by tracing MCU code with IC specifications

Projects

Knowledge Discovery in Database (KDD) Cup Contest

02/2019 – 06/2019

Result: weighted F1-score of 0.6884 on the test set, close to the first-place team's score of approximately 0.7

- Developed machine learning workflows in Python, including preprocessing, feature engineering, and model training, to predict Baidu Map users' preferred transportation modes using 500,000+ data points

RTOS Implementation

09/2018 – 01/2019

- Modified the μ C/OS-II kernel scheduling to implement and evaluate various scheduling algorithms, including Earliest Deadline First Scheduling, Non-Preemptible Critical Sections and Priority Ceiling Protocol

Intelligent Curtain System – Undergraduate Capstone Project

07/2016 – 06/2017

Award: first place in the final project exhibition

- Designed a system integrating Zigbee sensors via Power Line Communication, including a custom curtain control PCB (D flip-flops, BJTs, RLC circuits) for automatic illumination-based adjustment and full hardware–software integration

Extracurricular Activities

University of Washington

09/2025 – 12/2025

FIRST Robotics Mentor

Seattle, WA

- Mentored students in electronics, sensors, wiring, and software framework design, emphasizing PID control systems, Java programming, and computer vision