

Kevin Lee

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Embedded Firmware Engineer with 3+ years of experience, currently pursuing a master's degree in **Embedded and Cyber-Physical Systems** at **UC, Irvine**. Skilled in C programming, low-level driver development and automated verification; seeking opportunities in **System Engineering and Embedded Software Engineering**.

EDUCATION

-University of California, Irvine, CA Master's Degree, Embedded and Cyber-Physical Systems	Sep 2025 - Dec 2026(Expected)
-National Taiwan University, Taipei, Taiwan Master's Degree, Mechanical Engineering	Aug 2019 - Jul 2021
-National Cheng Kung University, Tainan, Taiwan Bachelor's Degree, Mechanical Engineering	Aug 2014 - Jul 2018

ENGINEERING WORK EXPERIENCE

Senior Firmware Engineer, Delta Electronics Inc.	Oct 2021 - May 2025
<ul style="list-style-type: none">• Developed EV Traction Inverter embedded firmware in C. Production formal release SW components developer.• Owned project SW runtime CPU load analysis and optimization. Improved CPU runtime load from 55% to ~35%.• Automated SW release pipeline, reducing verification effort by ~85% (10 R&D × 5 days to 2 × 3 days).• Led ASPICE LV 2 & 3 project scope SW test as Software Test Leader w. certification awarded.• Production procedure integration. Developed EOL SOP for shipment safety SW pack integration/validation.• Global team collaboration and global-customer technical support. (USA, India, Germany, Spain, Italy)• Delivered on-site technical support at Detroit (U.S.) and Bengaluru (India) R&D centers.	
Project Lead, Advanced Power R&D Center, National Taiwan University	Aug 2019 - Jul 2021
<ul style="list-style-type: none">• Led a team of 6 and completed two co-op research projects.• EV Truck By-wire HiL platform, subsystem development and powertrain integration.• Designed and implemented 8kW Plugged-In range extended hybrid power system for scooter.• Designed and implemented STM32-based VCU embedded SW for energy management control and CANFD.• System energy consumption modeling with Simulink/dSPACE RTI for management strategy development.• Planned/executed AVL dynamometer tests for WLTP and WMTC pattern verification.• Reduced CO₂ emissions by ~8.5 % compared to an ICE powertrain on Hybrid powertrain prototype.• Master's Thesis : Development of Energy Management Strategy for Range Extended Hybrid Scooter with HiL Validation and Well-to-Wheel CO₂ Emissions Evaluation	
On-site Engineering Intern, GE Aviation	Jul 2018 - Aug 2018
<ul style="list-style-type: none">• Commercial aircraft turbine engine shop On-Site Engineer• Investigated causes of turbine component scrap and conducted yield analysis.	

RELEVANT SKILLS

- Programming : C, Python, Simulink, FreeRTOS, RTA-OS
- Development Platforms : IBM Rhapsody, Enterprise Architect, IBM Rational, Jenkins
- Embedded Platforms : STM32, ESP32, Infineon Aurix, Arduino, Raspberry Pi
- Validation Platforms : VectorCAST, HelixQAC, dSPACE, MicroAutoBOX, AVL Dyno
- Standards/Frameworks : MISRA C, ASPICE, Software-Dev-Life-Cycle, KGAS, ISO26262, HiL, CiL, MiL
- Communication Protocols : CANBUS, CANFD, I2C, SPI, UART