

Tian Jun Teoh

Ames, IA 50014

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Summary

Computer Engineering student (GPA 3.77) with experience in RISC-V processor design, embedded systems, and AI-integrated cloud applications. Proven leadership as a Teaching Assistant for Digital Logic. Seeking engineering internship opportunities in embedded systems, hardware-software integration.

Skills

- **Programming:** Java, C, Verilog, VHDL
- **Software & Tools:** Intel Quartus Prime, QuestaSim, Android Studio, Firebase, Git, Linux
- **Hardware:** Digital logic design, datapath architecture, pipelined processor design, FPGA
- **Languages:** English, Mandarin, Malay

Experience

CPRE 381: RISC-V Processor Design – Ames, IA	08/2025 – 12/2025
• Implemented multi-stage pipelined RISC-V processor with instruction decoding and control unit design	
• Implemented forwarding and hazard detection logic to resolve pipeline conflicts	
• Analyzed performance tradeoffs between pipeline depth and hardware complexity	
• Debugged control hazards and data hazards to ensure correct instruction execution	
CPRE 388: AI-Integrated Puzzle Game – Ames, IA	08/2025 – 12/2025
• Developed Kotlin-based puzzle application with Firebase cloud backend	
• Implemented AI-based puzzle generation algorithms to dynamically create game challenges	
• Integrated real-time database synchronization for persistent game state management	
• Designed modular application architecture for maintainability and scalability	
Teaching Assistant – CPRE 281: Digital Logic – Ames, IA	08/2025 – Present
• Led weekly lab sessions, exam review sessions and supported 100+ students in digital logic design	
• Designed structured explanations to simplify complex digital logic concepts	
• Assisted students with circuit analysis, FSM design, and hardware debugging	
• Graded coursework while maintaining academic integrity standards	

Sales & Store Manager	09/2022 – 09/2023
Millennium Revenue Sdn. Bhd. – Malaysia	
• Achieved full return on investment within first year of store launch	
• Managed daily operations, trained and hired 20+ staff, and optimized sales strategies	
• Implemented a cost control and order planning system, reducing procurement costs	

Education

Iowa State University – Ames, IA	Expected 12/2026
Bachelor of Science in Computer Engineering (GPA: 3.77/4.00)	
Sunway University – Malaysia	01/2022 – 12/2023
Bachelor of Science in Computer Science (GPA: 3.60/4.00)	

Accomplishments & Volunteer

Dean's List Iowa State University	Fall 2025
Dean's List Sunway University	May 2023
Homeland dog shelter volunteer , assisted with animal care and shelter operations.	2022-2023
Tzu Chi Recycling community volunteer , participated in community recycling programs.	2022-2023