

WEI-REN CHEN

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EDUCATION

National Chiao Tung University, Taiwan (R.O.C.)
M.S. in Computer Science & Engineering
Teaching Assistant of Computer Science Computer Center

June 2010

WORK EXPERIENCE

SGS-TUV Saar
Functional Safety Project Manager

February 2019 - Present
New Taipei City, Taiwan

- ISO 26262 auditor and assessor.
- Provide ISO 26262/ISO 21434/ISO 21448/ASPICE services.
- IEEE SA member.
 - IEEE P2851 WG Secretary.
 - IEEE FSSC voting member.

Horizon Robotics Inc.
Senior Software Engineer

August 2018 - February 2019
Shanghai, China

- Develop AI Toolchain for our AI accelerator.
- Establish organization-wide policy and procedure complying with ISO 26262. After that, as the functional safety manager of our AI Toolchain project.
- Internal trainer of ISO 26262 and ISO 21448.
- IEEE SA member.
 - IEEE P2851 WG member and SG co-leader.
 - IEEE FSSC voting member.

Huawei Technologies Co. Ltd
Senior Software Engineer

December 2015 - August 2018
Zhejiang, China

- Develop Clang/LLVM compiler, GNU binutils and GNU libgcc for our DSP.
- Develop DSL for our wireless team, for programming L1/L2 of 4G/5G. The DSL is data-flow programming paradigm aims to help programmer focus on the in/out of each operations, and let the compiler do the code generation and optimizations. I involves in the language design, and implementing compiler (Scala) from the front-end to the back-end.

Generalplus Technology Inc.
Software Engineer

November 2013 - December 2015
Hsinchu, Taiwan

- Develop DSL for our 4-bit RISC-like processor. Instead of programming in the assembly, a DSL is implemented to help our customer reducing the time to market. The compiler is not only a standalone tool, but also integrated in our IDE to help our customer catching syntax and semantic errors in the early stage of development.
- Maintain 6502 C compiler and tool chain. The 6502 C compiler is derived from SDCC, integrated with our proprietary tool chain. My responsibilities also include helping our FAE programming the C code, and writing technical report to our customer (in English of course).

Academia Sinica

Research Assistant

October 2010 - August 2013

Taipei, Taiwan

- Research in compiler and virtualization techniques (QEMU and LLVM). Focus on binary translation and hardware performance profiling feedback optimization.

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- SGS-TUV Saar Automotive Functional Safety Experts - valid until Jun. 2025.
- SGS-TUV Saar Certified Automotive Cyber Security Professionals - valid until Nov. 2025.
- SGS-TUV Saar SOTIF Professionals - valid until Nov. 2025.

OPEN SOURCE EXPERIENCE

- Cygwin hidapi port maintainer.
- Help LLVM community releasing its first ARM binary!