

張傑程

JIE-CHENG JHANG

Software & Firmware Engineer



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tobygameac.github.io



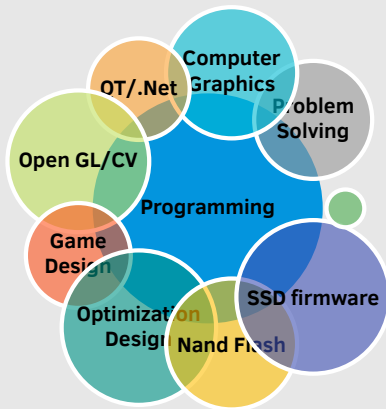
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tobygameac

## Skills

### Overview



### Programming

0 LOC —————> 50000 LOC

C

C++ • Java • C# • Python

HTML • JS • PHP • SQL

## Projects

Please click the project name to view the demo / detail.

**Treasure Defender** - An augmented reality tower defense game

**Stock Tools** - A TWSE data fetching program

**Billiards simulator / AI**

**Wound Segmentation**

**3D Horror Maze** - A Maze generation algorithm + a horror game

**Vocabulary Learner**

**Nano TD** - A tower defense game

**Ghost Defense** - A shooting game

## Education

2015 - 2017 **MS., Computer Science**  
Grade : 93.89

National Cheng Kung University, Taiwan

2011 - 2015 **BS., Computer Science**

Grade : 93.40 CS Major, 87.00 Overall

National Dong Hwa University, Taiwan

## Experience

Jan 2021 - **Software & Firmware Supervisor**

Phison Electronics Corps.

Present

- Lead a team of 8 engineers to develop SSD software and firmware (RDT FW, BI FW, MTFW)
- Design and implement firmware architecture to improve portability across multiple generations of SSD controllers
- Implement automated testing and CI/CD processes to improve firmware quality
- Provide solutions to improve quality or to reduce cost of the SSD manufacturing line
- Cooperate with various teams from both Phison and customers

Nov 2020 - **Software & Firmware Deputy Supervisor**

Phison Electronics Corps.

Jan 2021

- Design and implement firmware architecture to meet new customer requirements

Sep 2017 - **Software & Firmware Engineer**

Phison Electronics Corps.

Nov 2020

- Develop SSD software and firmware
- Develop algorithm to demonstrate reliability of the SSD

Sep 2012 - **Teaching Assistant**

Prof. Wen-Kai Tai / Prof. Cheng-Chin Chiang

Jun 2015

- Design programming problem sets for assignments and exams

## Programming Contests

2016

**Advanced to round 2** , Facebook Hacker Cup

2013

**Advanced to round 2** , Google Code Jam  
World 1723 / 21273 (8%)

[link](#)

2013

**1st place**, NDHU Programming Contest

2013

**Rank 2 / 819 (0.2%)** , College Programming Exam

[link](#)

## Master's Thesis

3D Reconstruction from a Single Image with Duplicate Objects via Template Models, Prof. Tong-Yee Lee

**Demo videos:** [video1](#) [video2](#)

## Awards

2015

**Honorary member of The Phi Tau Phi Scholastic Honor Society**

2012-  
2015

**Outstanding Academic Performance (Presidential Award) × 5**

2013

**Honorable mention**, CS & IM Senior Project Contest