

# Alexander Pan (Bo-Yu Pan)

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## EDUCATION

**National Central University (NCU)**

Taoyuan, Taiwan

Bachelor of Science in Mechanical Engineering (Design and Analysis program) ; GPA: 2.61/4.00 Sep. 2012 - Jun. 2016

**National Taiwan Ocean University**

Keelung, Taiwan

Took Numeral Analysis as an inter-collegiate course (3 credit with 4.0/4.0 GPA)

Sep. 2015 - Jun. 2016

## CERTIFICATE

Harvard University: CS50x.

National Taipei University of Technology: Data Structure, Discrete Mathematics

CaLARTS: UI/UX Design (certificate expected 08/2020)

## TECHNICAL STRENGTHS

**Software & Tools** HTML5, CSS3, JavaScript, C++, Python, Vue.js, AWS, Ultimate++, Flask, OpenVINO, LaTeX

**Design & Analysis** SOLIDWORKS 3-D models, MATLAB/Simulink, Adobe XD, Figma, Photoshop, Lightroom

## WORK EXPERIENCE

**Gigabyte Technology Co., Ltd.**

New Taipei City, Taiwan

*Full-Stack Developer Intern*

Oct. 2019 - Present

- Collaborate with with three teams and optimize the accuracy to 99.8% , with 2.084% False Rejection Rate and 0.0000817% False Acceptance Rate, by implementing the Triplet Loss function.
- Develop User Interfaces for the Gigabyte face recognition system and an API testing system with Vue.js and Figma.
- Save 54% irrigation water use through developing UI/UX Design for the Automatic Irrigation System. (Computex)
- Deliver speeches as a keynote speaker on User Experience topics to students from Okinawa Kenritsu Nahashogyo High School and The Affiliated Zhongli Senior High School of National Central University.

**EVA Airways**

Sacramento, California

*Cadet Pilot*

Mar. 2018 - Feb. 2019

- A program with 2% acceptance rate and was accepted with full financial aid.
- Completed first solo flight after only 15 hours of logbook hour and scored 97% on Private pilot exam.
- Enhanced the situational awareness and time management, which allow me to multitask and work well under pressure.

**Vensik Electronics Co., Ltd.**

Taipei, Taiwan

*Business Engineer*

Jun. 2016 - Mar. 2018

- Work with automotive OEMs and tier 1 customers to develop new designs and products, enabling reduction in test time per unit by 50% by removing all manual testing aspects and adding automated report generation.
- Delivered 75% of the total budget to meet customer requirements via lean production strategies.

**Advanced Rocket Research Center, NCTU**

Hsinchu, Taiwan

*Summer Intern*

Jun. 2014 - Oct. 2014

- Assisted mechanical design for a hinge system and bottom case assembly using Creo Parametric
- Join the design and testing of a dual bidirectional double vortex bipropellant engine using SOLIDWORKS
- Gained hands-on 3D printing skills using the Ultimaker, Mojo and Elite 3D printers

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

**WOOD Coffee Company**

Taipei, Taiwan

*Founder & Head Barista*

Jan. 2016 - Present

- Singly handled the sales and graphical design of the brand
- Solicited corporate sponsorship to participate in 15 grand opening events of stores within a year

**Taiwan Unmanned Aircraft Competition, NCKU**

Tainan, Taiwan

*Student Ambassador*

Sep. 2014, Sep. 2015, Sep. 2018

- An Innovative Unmanned Aircraft Vehicle (UAV) Design Competition among 59 teams from universities and institutes all over the world.
- Hosted the team from Hong Kong polytechnic university and got designated to host them twice after