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 (certificate expected 03/2020).

TECHNICAL STRENGTHS

Software & Tools   HTML5, CSS3, JavaScript, C++, Python, Vue.js, 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 software (GFace) and internal 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 Machine Learning topics to students from Okinawa Kenritsu Nahashogyo High School, Taoyuan Chi-Ying Senior 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 with Business Development Manager

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 new direction for the launch system using SOLIDWORKS
· Gained hands-on 3D printing skills using the Ultimaker, Mojo and Elite 3D printers

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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

Basketball Varsity, NCU — Taoyuan, Taiwan
Captain *Sep. 2013 - Aug. 2015*
· Led the team to win a national intercollegiate championship in 2013

Department of Mechanical Engineering, NCU — Taoyuan, Taiwan
Class representative *Sep. 2012 - Jun. 2016*
· Led the student meetings and promoted students interests
· Organized the community service and graduation trip