

VINCENT ONGGOPUTRA

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EDUCATION

University of Southern California Viterbi | School of Engineering
Bachelor of Science

May 2027

- Bachelor of Science in Computer Engineering and Computer Science and a minor in Artificial Intelligence Applications

Bina Bangsa School Kebon Jeruk

June 2018-July 2023

High School Cambridge's A-Level Qualification

- Awarded 4 A* in Computer Science, Math, Physics, Chemistry in A-Level exams. Achieved 3rd in cohort

WORK EXPERIENCE

SWE Intern

May 2024-July 2024

LitUp Network, Jakarta, Indonesia

- Developed a Tkinter-based desktop application for visualizing and comparing building management system data from a Cable Landing Station (CLS) and two Intermediate Line Amplifiers (ILAs), utilizing Excel sheets for data input
- Implemented advanced data visualization techniques using Matplotlib and leveraged pandas for manipulating 400+ parameters across months of collected data
- Managed the installation and maintenance of LitUp's newly built cable landing station in Batam, overseeing the implementation of state-of-the-art technology for secure and reliable solutions
- Configured and maintained self-hosted RustDesk servers to monitor host computers across three sites in Indonesia, enhancing the monitoring capabilities of building management systems at each location

Engineering Intern, Quality Control

June 2022-August 2022

Global Prima Indotek, Banten, Indonesia

- Developed a user-friendly application to streamline a bottleneck process in quality control
- Utilized OCR to verify text and barcodes on product labels and instruction sheets, accelerating the label-checking process by 300%
- Utilized Python's computer vision libraries (OpenCV2, Pytesseract) to construct an automated label-checking algorithm

Intern Web App Developer, Product Development

June 2021-July 2021

Vertilogic, Jakarta, Indonesia

- Collaborated in a team of three engineers in developing a web app (Virtue-X) to allow exhibitors to connect with visitors through an online 360 exhibition platform

RESEARCH EXPERIENCE

Autonomous Vehicle Research Engineer, F1-Tenth Project, Ming Hsieh Department of Electrical Engineering

July 2023-May 2024

CURVE Research Program - AutoDRIVE Autonomous Vehicle Lab, Los Angeles, CA

- Pioneering the F1-tenth project, a scaled down autonomous car, and a simulation based experimental testbed to test effectiveness of different driving algorithms
- Collaborating with PhD students in assembling different software and hardware components, implementing driving scenarios, and collecting data
- Troubleshoot F1-tenth car's intricate speed controller issues and established functional LiDAR and camera connections, pivotal for enabling precise computer vision in autonomous driving simulations.

ACADEMIC PROJECTS

Founder, UVinci, Jakarta, Indonesia

November 2020-July 2023

- Engineered an innovative door handle sanitizer with motion sensors, automating sanitization processes and significantly reducing the risk of viral transmission by 95%
- Programmed a microcontroller in C++, 3D modeled a chassis through OnShape CAD software, formulated a PCB in EasyEDA
- Featured in Tribunnews.com, a national news agency for implementing the technology in Ngaduman Village during the pandemic, mitigating viral transmissions for 200+ people

SKILLS

>_ Skills: Proficient in C++, Python, Pandas, HTML, CSS, JS, SQL, ROS, CAD, EasyEDA PCB Design

>_ Language: Proficient in English, Mandarin and Indonesian Language

>_ Interests: Software Engineering, Machine Learning, Robotics, Cyber Physical Systems