

VINCENT ONGGOPUTRA

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EDUCATION

University of Southern California

May 2027

- Bachelor of Science in Computer Engineering and Computer Science
- Minors in Artificial Intelligence Applications and Entrepreneurship

Bina Bangsa School Kebon Jeruk

June 2018-July 2023

- Awarded 4 A* in Computer Science, Math, Physics, Chemistry in Cambridge's A-Level exams; ranked 3rd in cohort
- Outstanding Cambridge Learner Award for achieving highest score in Indonesia in Global Perspectives and Research
- Recipient of a merit-based scholarship in recognition of outstanding academic performance

WORK EXPERIENCE

Software Engineering Intern

May 2024-July 2024

LitUp Network (subsidiary of OMS Group), Jakarta, Indonesia

- Created a Tkinter-based application for visualizing building management system data, utilizing Excel sheets for data input.
- Collaborated with operators to simplify analysis of 400+ parameters using Matplotlib and Pandas, saving operators time by replacing manual Excel reviews and highlighting abnormalities for quicker issue detection.
- Enhanced IT infrastructure stability by deploying RustDesk, enabling seamless remote monitoring across multiple locations and reducing costs by replacing expensive subscriptions such as TeamViewer.

Engineering Intern, Quality Control

June 2022-August 2022

Global Prima Indotek, Banten, Indonesia

- Constructed a user-friendly application to streamline quality control by automating label verification with OCR, using OpenCV2 and Pytesseract to validate text and barcodes, boosting label-checking efficiency by 300%.

Intern Web App Developer, Product Development

June 2021-July 2021

Vertilogic, Jakarta, Indonesia

- Partnered with a development team to optimize key backend features for Virtue-X, a virtual 360° exhibition platform, including real-time data synchronization with WebSockets and efficient database management leveraging MongoDB to handle over 10,000 exhibitor and visitor records.
- Resolved critical bugs, such as login and media display issues, ensuring smooth user access and content visibility. Boosted user engagement by integrating interactive UI elements with JavaScript, HTML, and CSS, enhancing user experience.

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

- Cooperated with PhD students and faculty to construct a scaled-down autonomous vehicle and designed a simulation testbed, increasing efficiency of algorithm evaluation and testing.
- Led integration of hardware and software components, enabling collection of critical data to accelerate the development of machine learning and reinforcement learning models.
- Improved real-time navigation and decision-making capabilities by leveraging ROS and RViz for simulation and visualization of complex autonomous driving scenarios.

ACADEMIC PROJECTS

Founder, UVinci, Jakarta, Indonesia

November 2020-July 2023

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

SKILLS

>_ Skills: Proficient in C++, Java, Python, HTML, CSS, JS, SQL, MongoDB, React, NodeJS

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

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