

RANDY STEFAN TANUWIJAYA

B.Sc. in Physics-IRE and Computer Science

@ rstanuwijaya@connect.ust.hk
in rstanuwijaya

+852 64321949

HKUST, Hong Kong



ACTIVE PROJECTS

Fullstack Developer @ onQ! HackUST2021

HKUST

March 2021 – Ongoing

Hong Kong

- Creative designer, idea originator, fullstack developer of onQ! (hackathon) project.
- Project description: "Translate your queue to a digital queue seamlessly. Start and check your queue remotely from your mobile phone. Top up your missed queue without worry."
- Source code on Github (some might be private at this moment): /rstanuwijaya/onq-hackust-web, /rstanuwijaya/onq-hackust-dashboard, /rstanuwijaya/onq-hackust-backend

Metasurface in Low Light Regime

Jensen Lab @ HKUST Physics

August 2020 – Ongoing

Hong Kong

- Final year Physics research projects
- Experiment and data analysis using PF-32 - Picosecond resolved single photon camera (camera that can tag the individual photon arrival time) for characterizing quantum optical metamaterial.
- Highlights: Quantum optics experiment and simulation, temporal image processing, python and mathematica
- Source code: /rstanuwijaya/pf32-python-analysis

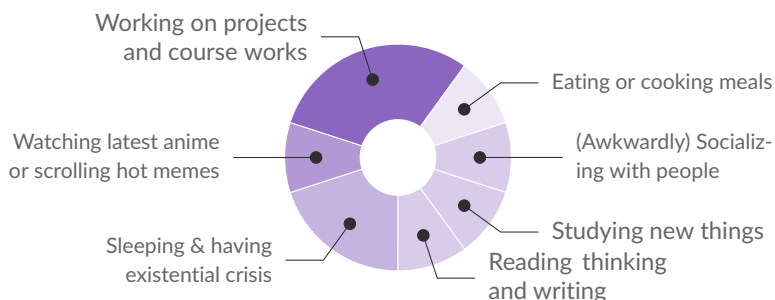
EDUCATION

B.Sc in Physics-IRE and Computer Science

Hong Kong University of Science and Technology

August 2018 – 2022

A DAY OF MY LIFE



ABOUT ME

A curious student, a passionate physicist, and a hobbyist developer.

Loves cooking and watching movies.

"Think like a scientist, work like an engineer."

MOST PROUD OF



Wholesome Personality

Hardworking, responsible, and compassionate (but I'm an introverted person!)



I'm a Proud Geek!

I like studying, doing technical stuffs, organizing things, and making things run more efficiently!



Good Sense of Humour

Check.



Achievements

Silver Medal on Asian Physics Olympiad 2018, HKUST Admission-Scholarship, Consecutive Dean's List on HKUST

SKILLS

Python for everything

LaTeX

MERN Fullstack

DevOps - AWS

Quantum Optics

Laser Alignment

Quantum Simulation

LANGUAGES

English
Indonesian



PAST PROJECTS

All-Optical Neural Network

Du Lab @ HKUST Physics

📅 January 2020 – August 2020 📍 Hong Kong

- Remote research project during beginning of pandemic.
 - Verifying the developed algorithm for all optical neural network
 - Highlights: Laser Cooling, Electromagnetically Induced Transparency, Weighted-Gerchberg-Saxton Algorithm.
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FPGA Controlled Silicon Photonic Switch

Photonic Device Lab @ HKUST ECE

📅 July 2019 - December 2019 📍 HKUST

- Assisting silicon photonic chip device characterization experiment
 - Developing feedback control system using Zedboard FPGA to control resonance system of Photonic chip
 - Highlights: Microchip characterization, Xilinx Vivado, Verilog.
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VOLUNTARY WORKS

Indonesian Election Organizing Committee

Consulate General of The Republic of Indonesia in Hong Kong

📅 February 2019 – March 2019

- Working as the mailing committee of 2019 Presidential Election.
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