

Tze Yee Koh

ABOUT ME

Driven student specializing in optimizations, operations research, and project management. Seeking to apply my knowledge in real world scenarios and create a lasting impact. Enjoy learning through experience and pursuing new fronts to further diversify my skills and experience.

EDUCATION

National University of Singapore (NUS), Singapore

Aug 2019 - Present

GPA 4.80, Bachelor of Engineering, Industrial and Systems Engineering with a Minor in Data Engineering. Dean's List 2020.

Singapore American School, Singapore

Aug 2016 - Jun 2017 (Senior Year)

GPA 4.19 (Weighted), Honors and AP Student

Crescent Valley High School, Corvallis OR

Sep 2013 - Jun 2016

GPA 3.95, Honors and AP Student

WORK EXPERIENCE

Robotics and Automation Intern, Singapore — National Research Foundation

Dec 2020 - Present

Conducted research under the Prime Minister's Office, Public Sector Science & Technology Policy and Plans Office. Investigated the automation landscape in Singapore by identifying emerging technologies, market players, implementation strategies and policy interventions.

Artillery Officer, Singapore — National Service

Oct 2017 - Aug 2019

Best in PT award for Service Term. Platoon Commander (Lieutenant). Bilateral Exercise with U.S. Army 2019.

CNC Machinist & Carpenter, Singapore — Arthur Zarro Design

Jul 2017 - Sep 2017

Self-taught assembly and conversion of ShopBot PRS Alpha CNC Mill to run on 230V. Programmed and operated Milling Machine for furniture design. Carpenter for solid wood and peranakan style designer furniture.

LEADERSHIP EXPERIENCE

Team LumiNUS Captain, NUS — RoboMaster Robotics Team

Sep 2019 - Present

Pioneering batch of students at NUS to compete in the DJI Robotics Competition. Implemented cost control measures and SOPs to boost efficiency and meet dynamic demands of robot teams. Conducted outreach, recruitment, and training programs to grow team from 30 members to 70.

Project Director, NUS — Ridge View Residential College

Nov 2019 - Aug 2020

Director of organizing committee for RVRC Freshman Orientation Program (FOP). Led a committee of 83 student leaders through the planning and coordination of the annual orientation camp for 300+ participants. Conceptualized and adapted camp programs to digitized platforms.

FIRST Robotics Team Lead, Singapore/Corvallis OR — Team 955 & 4817

Jun 2013 - Dec 2016

Lead Team 955 in fabrication and assembly of robots. Captain of Team 4817. Managed production and quality of custom in-house components along with travel logistics for robot maintenance and replacement parts.

ACTIVITIES

Fei Yue Community Services, Singapore — IT Volunteer

IT Volunteer assisting with cleaning and organizing HR Database. UAT Testing for leave management system.

Willing Hearts Social Services, Singapore — Volunteer 2019-2020

Volunteer regularly at the soup kitchen with the processing and distribution of food.

MEA Carbon-Capture Optimization, Corvallis OR — Intel Science Fair 2015

Carbon harvesting temperature optimization of Monoethanolamine carbon-capture at atmospheric pressure.

Varsity & Club Swimming, Singapore/Corvallis OR — Team Captain & MVP 2015-2016

Swimmer for 10 years; High School Varsity Team; State Championship 2013-2016; SAS IASAS Swimming 2017; NUS RVRC swim team coach; Inter-college Games 2020.

CONTACT

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HONORS & AWARDS

FIRST Robotics US District

Champions (2015) & World

Qualifiers (2013-2016);

VEX Formosa Regional Winners

(2016);

United States Air Force Achievement

Award, Intel Science Fair 2015;

Academic Honors Status & Athletic

Achievement Award (2013-2017);

Science & National Honors Society

(2013-2017);

MVP for CVHS Swim Team (2016)

LANGUAGES

Fluent in English and Mandarin

SKILLS

Windows, Mac OS, Linux

Solidworks, AutoCAD, Inventor,

Fusion360, Mastercam, G-Code, Python,

SQL, HTML, CSS, Django