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EDUCATION

Taylor's University, Subang Jaya
- Bachelor of Engineering (Honours) Mechanical Engineering (undergoing)
- Current CGPA 3.90

Taylor's College, Subang Jaya
- South Australian Matriculation
- ATAR 98.95

HONORS AND AWARDS

Tertiary Merit Scholarship - Highest Tier
Taylor's Engineering Fair October 2016 - 1st Runner Up
Taylor's Engineering Fair July 2017 - 3rd Place
Taylor's Engineering Fair October 2017 - 1st Place
Solidworks Intervarsity Competition 2018 - Runner Up
Taylor's University Dean's List - Every Semester so far
Taylor's University Book Prize - Semester 5, Semester 4

PAPERS

"Application of Steady State Integral Proportional Integral for Inner Dynamics Control Loop of Multi-Rotor UAVs", International Conference on Advances in Computing, Communication & Automation (ICCACA), 2018

SKILLS

C++ programming
MatLab programming
Simulink and Simscape
Solidworks CAD
EasyEDA PCB CAD
Ansys CAD
Well versed in Linux (primarily Ubuntu) navigation
Well versed with PX4 and ArduPilot autopilot architecture
Well versed in available robotics microprocessors and sensors
Well versed in computer hardware

PROJECTS

On-line Self Tuning Quadrotor – Ongoing

- Self Tuning Quadrotor for applications where the multi-rotor dynamics are changing such as during change of moment of inertia and COG (drone delivery) or dynamic loss of power (change of atmospheric conditions)

Steady State Integral Controller Quadrotor

- Steady State Integral Prediction Algorithm adapted from switching mode ISP into a continuous system for multi-rotor UAVs where tuning is done with a single parameter and the system poles are always on the negative real axis.

Arduino Platform based CNC knife w/ tangent following blade

- Arduino based benchtop CNC machine with tangent following blade to cut thin material sheets from user defined CAD drawings.

Automated Aircraft Painter

- Small Scale Automated Aircraft Painting Machine that prints user defined images on aircraft surfaces.

Arduino Platform based Quadrotor - Scratch Build

- Complete quadrotor system based on single channel RF and Arduino interfacing under RM 400.

Others

- All Weather Quadcopter PID Controlled Inverted Pendulum Arduino Platform based Spider Bot Quasi-Passive Exoskeleton

Extra-Curricular Activities Taylor's Robotic Club, Project Development Lead CDIO Conference Kanazawa, Japan 2018