Faculty of Engineering
Summer Research Program 2022-2023

Project Title: AI-aided dynamic scheduling of production line
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Objective
This project aims to develop a smart dynamic scheduling system for a 3D printer farm. A scheduling algorithm needs to be developed based on the data obtained from digital twin to decide how to increase the production line throughput and reduce the lead time.

Project Details
We have several different printers in the smart manufacturing digital twin lab. A student needs to develop a dynamical scheduling algorithm with consideration of machine speed, materials, part features and functional requirements. This scheduling algorithm will decide how to distribute jobs to each 3D printer.

Prerequisites
No prerequisites, but a student who has an AI background would be preferred.

Additional Information
An applicant who is interested in this project please contact Dr Yunlong Tang Yunlong.tang1@monash.edu. The interview is required.