Cooper Rufus

crufus142@gmail.com | 0491 631 876 | cooperrufus-portfolio.com | In/cooperrufus

Skills

Development: SolidWorks, ProjectWise, Structural Drafting, Technical Drawings **Analysis:** Microsoft 365, MATLAB, ANSYS Static & Fluent, AFT Fathom, MathCAD 15 **Construction:** Hand Tools, Shop Tools, Asphalting, Drainage, Earthworks

Experience

Experience	
 Undergraduate Mech/Piping Engineer, HATCH – Brisbane Conducted detailed engineering on a FEL-4 Rare Earths Project Developed models, analysis and calculations for Tanks, Pumps and Piping Networks Analysed and implemented vendor equipment data Contributed to engineering package deliverables Click <u>HERE</u> to see an overview of my work at HATCH 	Nov 2023 – Feb 2024
 Civil Construction Worker, Bike Tracks Australia – Brisbane Designed and built BMX tracks for private clubs and city councils Worked with diverse teams and trades professionals Experienced culture and procedures in Civil Construction and related trades Tasks included Stormwater Drainage, Machine Operation, Asphalting & Earthworks 	Jan 2023 – Dec 2023
 Structural Draftsman, The Drawing Office – Maryborough Produced technical drawing packs for structural models Including Parts, Members, Rafters, Modules, Marking Plans/Elevations and BOM's Interpreted engineering drawings and architectural plans Used top-down SOLIDWORKS modeling techniques Projects	Nov 2020 – Jan 2023
 Decarbonizing the Steel Industry with Offshore Green Hydrogen – Research Project An ongoing research project with QUT Faculty of Mechanical, Medical and Process Engineer Research on the infrastructure requirements for production and distribution of offshore gree Development of transportation models for compressed hydrogen in the Bass Strait Region Research into offshore hydrogen storage methods 	-
Education	
Queensland University of Technology – Bachelor of Mechanical Engineering (Hons.) Queensland University of Technology – Secondary Major in Electrical Engineering	Projected - Nov 2024 Projected - Nov 2024
Qualifications	
CPCCWHS1001 – Prepare to Work Safely in the Construction Industry	2023
FSK20113 – Certificate II in Skills for Work and Vocational Pathways	2020

2019

MEM20413 – Certificate II in Engineering Pathways