

CAPABILITY STATEMENT

Josh Taylor



**Cadet Engineer
Water Resources**

CONTACT DETAILS

0498 523 171

12 Scott Street
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QUALIFICATIONS

- Bachelor of Engineering (Mechanical) (Hons) – currently studying

PROFESSIONAL ASSOCIATIONS

- Engineers Australia

Josh is a Cadet Engineer at Pinion Advisory working as part of the Water Resources Team. He is currently studying for his Bachelor of Engineering (Mechanical) degree with completion planned in mid-2024.

Josh has been involved in all aspects of water projects, developing skills in Civil 3D, GIS, pipeline design, and hydraulic modelling. He supports to our engineering team by providing comprehensive assistance throughout the entire project lifecycle.

Areas of expertise

- Mechanical design
- Mechanics of materials
- Fluids and heat transfer
- Electronics and electromagnetism
- GIS and spatial analysis
- Hydraulic modelling
- Computer programming

Professional experience

Pinion Advisory – Cadet Engineer – Water Resources, 2023-present

CAPABILITY STATEMENT

Relevant projects

PROJECT	ROLE	CLIENT	YEAR/S DELIVERED
Water for Lockyer costing review	Conducted a comprehensive review and amendment of the 2020 DBC costing model, aligning both capital and operating costs (fixed and variable) with current market rates	KBR	2024
Bowen pipeline DBC	Developed and delivered a comprehensive Class 2 costing, produced numerous GIS maps, and assisted Senior Engineer in engineering investigations	KBR	2023
Lowood pipeline	Assistance to Senior Engineer for engineering investigations as part of detailed business case	KBR & Somerset Regional Council	2023
Hunter Valley options analysis	Drafted and mapped several pipeline options in QGIS and developed a high-level costing of each	Marsden Jacob Associates	2023
Ord River PBC	Produced clear and detailed GIS maps of all options developed by the Senior Engineer	Marsden Jacob Associates	2023
Comprehensive dam consequence category assessments	Modelled worst-case dam break scenarios with HEC-RAS in addition to calculating the PAR and PLL to determine the appropriate ANCOLD consequence category	Various	2023 – ongoing
Great Bend pump station augmentation	Assistance to Lead Engineer by conducting engineering investigations and research	Tasmanian Irrigation	2023
Various projects	Continuous collaboration with Project Manager to implement desired Smartsheet functionality	GHD	2023