

Tom Carruthers

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WORK EXPERIENCE

inGauge Energy

June 2019 – June 2024

Mechanical Project Engineer

Brisbane, QLD

- As a project manager for an engineering consultancy I oversaw the successful design and execution of a range of projects for multiple clients, from gas well completions, civil works, and surface facilities installations.
 - Assisted with the design, and then became the primary project manager for the installation of a new water processing facility at the Origin Darling Downs Gas Power Station. I was awarded a special commendation for my work navigating tough on-site conditions, environmental compliance, and contractor relationships.
 - Designed and installed a deep bore dewatering system for a production gas well in the Northern territory.
 - Executed the civil construction of a series of 5 well-pads for a multi-well drilling campaign, which included landholder access/payment negotiations and regulatory approvals.
 - Executed the construction of a deep water well (1550m), and pump installation as the primary water supply for a remote drilling campaign.
- I created a series of novel solutions for problems that arose at work, including:
 - A leak detection and water level monitoring system that utilized a satellite network to send data from remote locations in order to remain compliant with strict regulatory conditions..
 - A QR code asset-tracking mobile application that allowed a client to accurately record the location and installation conditions of a compressor station before it was decommissioned and moved to a new location.

JPC Engineering

January 2019 – May 2019

Mechanical Engineering intern

Toowoomba, QLD

- While studying I completed two internships with a mechanical design firm that specialized in industrial machinery installations.
- My key responsibilities included Solidworks design of simple parts (brackets, hangers, plates, etc.), and drafting of more complex parts for fabrication to Australian standards.

Queensland Industrial Cladding

December 2013 – December 2018

Roofer/Laborer

Toowoomba, QLD

- During high school and university, I worked within a team of roofers, cladding commercial buildings across Queensland. Including a wide variety of job sites: military barracks, mine sites, grain silos, apartment blocks, etc.

EDUCATION

University of Queensland

June, 2019

Bachelor of Mechanical Engineering (Honors)

Brisbane, QLD

- I attended St John's College and played rugby union & tennis for the first two years of my university education.

SKILLS

Project management; cost modeling & forecasting; contractor relationships; Microsoft Office; Python; Javascript (React & React-Native); C++; QGIS; Autocad; Fusion 360; Solidworks; OH&S Knowledge; Permit-to-Work system knowledge; Electronics Design & PCB Manufacturing; 3D printing;

Personal Projects

I taught myself how to code in Javascript & Python during covid, and since then have built a series of projects for both personal and commercial use:

Snap Park: (snappark.co) • CrossCopy (crosscopy.dev) • Ream Digital Receipts (reamreceipts.com)