

# Scott Malone

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## Career Objective

Currently studying a diploma in Professional Engineering Practice, Bachelor of Electrical Engineering after spending the last ten years as a licenced carpenter. I'm looking for a challenging and innovative career at the forefront of technology. I began to develop a passion for maths and engineering during my first physics class, when we learned how to calculate how long water would take to boil in a kettle, to the second.

## Education

**Diploma of Professional Engineering Practice** Feb 2016 – Dec 2022(expected)  
**Bachelor of Engineering (Electrical)**  
*University of Technology Sydney (UTS)*

- Finished all Electrical Engineering core subjects
- Also involves subjects such as Project Management, Entrepreneurship, Economics and Finance

**Tertiary Preparation Certificate IV(TPC)** Feb 2014 – Dec 2015  
*TAFE Sydney Institute, Ultimo*

**Certificate III Carpentry** Feb 2010 – Dec 2012  
*Randwick TAFE*

## Technical Skills

<b>Languages</b>	C, VHDL, MATLAB.
<b>Software</b>	Sublime Text 3, Quartus Prime II (lite), MATLAB R2019a, Microsoft office
<b>Power tools</b>	Accurate and safe use of most to all construction power tools
<b>Plans</b>	Can read building schematics and technical drawings
<b>Circuit Analysis</b>	Can design and analyse basic electronic circuits.
<b>Electrical tools</b>	Oscilloscopes, function generators, multimeters, DC/AC power supply
<b>Certified Carpenter</b>	Qualified to perform all carpentry duties on domestic and commercial construction sites

## Experience

**Trainer & Assessor (Carpentry Certificate III)** Oct 2019 - Current  
*AHMI*

- Apply strong communication skills when presenting theory to classes of up to 30+ mature age international students
- Demonstrate technical concepts using free body diagrams on white boards
- Design quizzes, assignments and real-world application exercises with short notice, based on the presentations supplied. Plan and execute tasks for students so that they are completed within a deadline. Assess student's competence and ensure they graduate with fully executable skills

**Carpenter**  
*Sole Trader*

**2006 - Current**

- Apply strong workplace communication skills with builders (B2B), clients (B2C) and other tradesman to ensure a correct and smooth job. This is done verbally or by reading schematics or drawing diagrams to illustrate an example of the finished product, etc.
- High attention to detail and quality when working on high end multimillion-dollar projects.

## Relevant Projects

**Fundamentals of C language**  
*University of Technology Sydney*

**Aug 2018 – Nov 2018**

Designed a program to collect, store and retrieve data. The theme was Sydney flights.

Requirements:

- Ask the user to select from multiple options
- The program required the user to input a name and address to store on the system
- Other options were to update details, retrieve stored data either by username or flight number from the database, and close program
- The user had to be notified of invalid inputs
- The use of string functions, pointers, arrays, structures, branches and standard library functions had to be used

**Introduction to Data Engineering**  
*University of Technology Sydney*

**Mar 2019 – June 2019**

Programming in MATLAB. Designed a program to optimise a terminal/concentrator layout with requirements. It was required to design a system that can calculate the minimum cost to run a terminal/concentrator layout. This project used machine learning algorithms and a probability equation.

- It was required to build a 12 x 7 matrix as a simulation to the terminal.
- MATLAB controls and probability equations had to be used on each element in the matrix.
- Random number generator function was used as an input to the MATLAB algorithm.
- Controls in conjunction with the probability equation determined the smallest possible combination for upkeep cost of the system.
- A plot was used to display the decrease in cost each time a loop in the algorithm was used.

## Core Skills

**Workplace Communication** – As a carpenter it was required to read and explain construction plans, problem solve as a team and differentiate language/terminology between customer and builder.

**Public Speaking** – Working as a carpentry teacher I often speak for 4-5hrs at a time presenting theoretical concepts to a class of 30+ students. I need to be able to articulate my speech in a manner that is clear to understand, while connecting with the audience to make sure I keep their attention. From this experience I have developed a confidence in public speaking.

**Project leadership, organisation and management skills** – As a leading hand carpenter I managed labourers and other carpenters by dedicating jobs to work efficiently in a sequential method required to build or renovate homes. Moreover, I had to plan ahead by measuring and having tools and materials available on the job when required.

## **Hobbies and Interests**

Rugby Union, Surfing, Camping, Reading, and Theories about the Universe

## **Referees**

Available upon request.