

# AMANDA THACH

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## EDUCATION

**Queensland University of  
Technology, Brisbane**

Exp. Graduation: Nov 2022

GPA: 4.31/7.0

B.A. - Mechanical

Engineering, Information  
Systems Minor

## SKILLS

Python, HTML/CSS, C#, C, SQL/SQLite, Data Visualization, Data Modeling,  
Regex, AutoCAD, SolidWorks, MATLAB, Signavio, Inventor 3D CAD, FEA  
Tolerance Analysis, Business Process Modelling

## COURSEWORK

Computer Technology Fundamentals, Designing for IT, Building IT Systems,  
Database Management, Business Process Modelling, Modelling Techniques for  
Information Systems

Engineering Computation, Fluid Dynamics, Fundamentals of Mechanical Design,  
Thermodynamics, Vibration and Control, Stress Analysis, Materials Degradation,  
Fluid Dynamics

## EXPERIENCE

**MECH. ENGINEERING INTERN** at PFI

*Internship | Jan 2021 - June 2021*

- Utilised Inventor 3D CAD to design and construct a rocket to educate high school students with practical components Conducted analysis using Excel and SolidWorks for stress
- Designed engineering drawings for PCB and electronic components efficiently
- Deconstruct Kawasaki Ninja with supervised attention and reconstructed it on table to ensure parts were still functioning

## PROJECTS

**LANGUAGE TRANSLATOR** Python

- Created a language translator app with the Google API to detect and translate inputted text to desired language.
- Implemented the GUI interface for Tkinter.
- Integrated translations of passages/paragraphs into an online cloud database after translated.

**GOOGLE ASSISTANT on Raspbian Python/Raspberry Pi**

- Set up Google Assistant on Raspberry Pi 3 with an LED as a visual status indicator.
- Implemented features where the assistant actively listens to your voice and responds to your queries upon hearing "Ok Google" or "Hey Google".
- Integrated with hotword detection instead of asking for Google

**PROFILE SUMMARY on Github** HTML/CSS/Java

- Created profile summary on myself using HTML, CSS and Java scripts.
- Implemented different static pages with different scripts, google fonts and tooltips.

## ORGANISATIONS

**QUT Bubble Tea Society** Events Officer Leader

- Set up events and ticketing through online merchants for members/non-members.
- Organise catering with restaurants, cafes and other venues for discounted items and scheduled sponsorship with said venues