



## PROFESSIONAL PRACTICE

### CATEGORY A, B & C ACTIVITY LOG SHEET

#### 1. PERSONAL DETAILS

Griffith identification Number

5 1 3 8 8 7 7

Family Name: Barber

Other Names: Jessy

#### 2. PROFESSIONAL PRACTICE ACTIVITY

CATEGORY

(See Note 1)

A

Days

(See Notes 2 &amp; 3)

4

Week Beginning

23 / 1 / 2023

Week Ending

26 / 1 / 2023

Supervisor Name: Alex Forward

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Organisation Name: Gilmour Space Technologies

Email: [alex.forward@gspace.com](mailto:alex.forward@gspace.com)

Organisation Address: 5 Millennium Circuit, Helensvale

#### 3. ACTIVITY DESCRIPTION & REFLECTION

##### Description of Activities Undertaken: (Approximately 50 words)

This week was focused on finishing my CDR presentation slides and conducting my CDR presentation for my PCB design. This was a two-hour presentation highlighting all the design choices and implications of my design to my lead engineer, head engineer and an avionic engineer. This CDR is what determined whether the project was worth funding and placing in the rocket, and whether the design was robust enough for a flight critical mission.

##### Discuss the Engineering Application Abilities Developed: (Approximately 50 words) (See Note 5)

Conducting the critical design review was an example of applying systematic engineering synthesis and design processes since the entire presentation was based on my holistic system design including cost targets (component and fabrication costs), identifying and assessing technical health and safety risks of my circuit layout and PCB design and defining the acceptance criteria for future software implementations on my board. This presentation took the form of a discussion, and much feedback was offered. In the end it was a successful presentation, and the project was greenlit after I worked to implement the design changes recommended by the team.

##### Discuss the Professional and Personal Attributes Developed: (Approximately 50 words) (See Note 5)

This presentation served to greatly develop my oral communication skills in a professional domain. It was an intense experience to present such a technical design to highly knowledgeable engineers, but it was an experience that taught me a lot about their thought processes, safety standards and acceptance criteria. In conducting the presentation, I effectively presented a high-quality engineering document, and was required to speak confidently and comprehend critically, and fairly the viewpoints of others through discussion format, understanding and discussing their recommendations, and considering practical implementations of these for the final PCB design.

#### 4. STUDENT SIGNATURE

Student Signature:

Date:

##### Notes:

1. See the table provided in the Activity Log Guidelines for the definition of each category of professional practice.
2. For work experience paid on a casual hourly basis, a day of work is taken as 7.25 hours.
3. Only days between Monday and Friday can be counted for research undertaken at Griffith University in Category B Professional Practice, unless prior approval has been granted by the course convenor for 6008ENG.
4. At least one Activity Log Sheet must be provided with each Record Sheet for Professional Practice in categories A, B and C.
5. Refer to the Engineers Australia Stage 1 Competencies.