



## PROFESSIONAL PRACTICE

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

#### 1. PERSONAL DETAILS

Griffith identification Number	Family Name: Barber
<div style="display: flex; justify-content: space-around;"> <span>5</span><span>1</span><span>3</span><span>8</span><span>8</span><span>7</span><span>7</span> </div>	Other Names: Jessy

#### 2. PROFESSIONAL PRACTICE ACTIVITY

<b>CATEGORY</b> <small>(See Note 1)</small>	<b>A</b>	<b>Days</b> <small>(See Notes 2 &amp; 3)</small>	<b>5</b>
<b>Week Beginning</b>	<b>16 / 1 / 22</b>	<b>Week Ending</b>	<b>20 / 1 / 22</b>
<b>Supervisor Name:</b> Alex Forward		<b>Contact Ph:</b> +61755492370	
<b>Organisation Name:</b> Gilmour Space Technologies		<b>Email:</b> alex.forward@gspace.com	
<b>Organisation Address:</b> 5 Millennium Circuit, Helensvale			

#### 3. ACTIVITY DESCRIPTION & REFLECTION

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

This week was focused on developing and planning a critical design review presentation for my current PCB design. This presentation is a long factor evaluation of the systems and sub-systems of the PCB device, and how it will interact with other systems in the rocket. Some categories include PCB / schematics, bill of materials, thermal / power calculations and functional requirements.

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

Developing a CDR is evidence of understanding the role of processes within a culture of continuous improvement since it is rooted philosophically in the continued improvement of the PCB design. The point of the presentation is to meet with heads of departments and analyse the design and discuss where it can be reviewed or changed. Since this device is critical hardware, it is imperative that the design undergoes a satisfactory review process, which starts with a CDR and PDR. Developing the CDR also required me to think critically about my project which allowed me to catch some last-minute errors.

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

The development of a CDR has thus far been a great experience in developing high quality engineering documents, specifically a presentation that is pertinent to the engineering discipline. A critical design review is common in the engineering discipline, and it has been a massive learning experience for me to see what the review process is like for an engineered design / product. This is the first time I have been a part of such review process since usually developing a product / design is the last phase in university. This experience has given me greater insight to the engineering process as a whole and makes me a more experienced engineer in general since I can take the insight from the review process into the prototyping of future products.

#### 4. STUDENT SIGNATURE

<b>Student Signature:</b> <i>Jessy Barber</i>	<b>Date:</b> 21-1-2023
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**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.