



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;"> 5138877 </div>	Other Names: Jessy

2. PROFESSIONAL PRACTICE ACTIVITY

CATEGORY <small>(See Note 1)</small>	A	Days <small>(See Notes 2 & 3)</small>	4
Week Beginning	3 / 1 / 22	Week Ending	6 / 1 / 22
Supervisor Name: Alex Forward		Contact Ph: +61755492370	
Organisation Name: Gilmour Space Technologies		Email: alex.forward@gspace.com	
Organisation Address: 5 Millennium Circuit, Helensvale			

3. ACTIVITY DESCRIPTION & REFLECTION

Description of Activities Undertaken: (Approximately 50 words)

After learning the basics of Altium and setting up a project, this week was dedicated to designing the schematics for the PCB. I was able to use my general knowledge from electrical engineering to build the circuits, but the major challenge was learning how all the existing sub systems of the RDAU unit were inter-connected. This was crucial because I had to make sure that my new components were connected properly to the on-board processors, power supply and D-Sub connector.

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

This week was especially challenging because I had to understand in my head exactly how the entire RDAU system worked so that I could integrate my own schematics. At the same time, learning the logic behind creating the schematics was equally challenging. Using my previous experiences, I was able to apply technical knowledge and open-ended problem-solving skills to slowly develop my schematics which involved a fair amount of electrical circuit theory. After implementing my new components in an Altium library with their corresponding footprints, I was able to create nets for the pins of these components and connect them to appropriate sub systems such as the processors, power supply and D-Sub connector.

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

I asked many questions this week from my team, and it became extremely evident how important the fundamentals of team dynamics are in an engineering environment. It is one thing to research an issue, but it is more helpful to ask advice from an industry professional. My team was happy to answer any questions I had because I had earned the trust and confidence of my colleagues through the competent and timely completion of tasks. My team was aware of my inexperience, saw how dedicated I was to learn this software and hence was and still are happy to assist any issues I face.

4. STUDENT SIGNATURE

Student Signature: <i>Jessy Barber</i>	Date: 7-1-2023
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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.