** Griffith School of Engineering**

**PROFESSIONAL PRACTICE**

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

**1. PERSONAL DETAILS**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Griffith identification Number** | | | | | | |  | **Family Name:** Barber |
| 5 | 1 | 3 | 8 | 8 | 7 | 7 |  | **Other Names:** Jessy |

**2. PROFESSIONAL PRACTICE ACTIVITY**

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| **CATEGORY**  (See Note 1) | | **A** | **Days**  (See Notes 2 & 3) | | | | **5** |
| **Week Beginning** | **5 / 12 / 22** | | | **Week Ending** | | **9 / 12 / 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**

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| **Description of Activities Undertaken:** (Approximately 50 words)  I was able to finish the development of my applications which now included an LCM output message receiver. Since the packet transmission now worked for a virtual CAN socket connection, I started planning the steps for my integration testing in the hardware in the loop (HITL) facility. I also developed my own DBC file and had to work with a manufacturer to gain missing specifications from the BMS data sheet. |
| **Discuss the Engineering Application Abilities Developed:** (Approximately 50 words) (See Note 5)  I was able to develop the fluent application of engineering techniques and resources through the development of my LCM receiver application. LCM is a message protocol developed in house and my application used that protocol to repackage CAN frame data into a published LCM network packet. My application then received incoming transmitted LCM packets and displayed a live feed of the decoded values over time. In doing this, I was able to apply existing tools and resources created by the software team with tools that I developed. |
| **Discuss the Professional and Personal Attributes Developed:** (Approximately 50 words) (See Note 5)  I was able to represent myself in an orderly way, and with professional conduct as I managed an issue we had with a supplier. The supplier had not provided sufficient information in the data sheet for the BMS which included things like data types and sizes. I had to open a discussion through multiple emails with them, in doing so I had to understand the importance of being a member of a professional community since the company is listed at the bottom of my emails. I was able to understand that I was speaking to the supplier on behalf of the company, and it was my responsibility to maintain a positive working relationship which meant presenting a professional image in all circumstances to a technical colleague. |

**4. STUDENT SIGNATURE**

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| **Student Signature:** | **Date: 10-12-2022** |