

## EE/CprE/SE 491 BI-WEEKLY REPORT 5

4/9/23 – 4/21/23

Group number: SDMAY23-14

Project title: Mobile Vehicle Security Bus

Client &/Advisor: John Potter &/ Joseph Zambreno

Team Members/Role:

1. Campbell, Ryan / Team 1
2. Jansen, Levi / Team 3
3. Lawson, Riley / Team 2
4. Ridgeway, Drake / Team 2
5. Scehovic, Ryan / Team 1 Leader
6. Stricker, Cody / Team 3 Leader
7. Torres, Josue (Josh) / Team 2 Leader

(All the above information should be there in each weekly report. The format/color scheme etc need not be the same. However, please remove everything that is in a bracket from your final submission. These are just part of the template and need not be a part of the report.)

- **Weekly Summary** (Short summary about what the group did for the week. This should be about a paragraph in length. These are just a few questions to help you get started. What was the overall objective for the week? In general, what tasks were completed? Were there any changes made to the project?)

This week we finalized and worked on bidirectionality so now we can pack up 8 byte CAN frames into CAN FD frames, give them a hash tag and append the monotonic counter value, send it to vcan 1, and receive it on the receiving vcan (0 or 1)

- **Past week accomplishments** (Please describe/summarize as to what was done, by whom, when and, collectively as a group. This should be about a paragraph or two in length. Bulleted points are acceptable as well. Please keep only your technical details related to your project. Figures, schematics, flow diagrams, pseudocode, and project related results are acceptable, but please ensure that they are legible (clear enough to read) and to provide an explanation. If researching a topic, please add a few details about what was learned and how it is relevant to the project. If two or more people worked on a single task, be sure to distinguish how each member contributed to the task. Specific details relating to the assistance provided to other members may be included here. **Do not include classwork, such as individual reflection assignments, and group meetings as part of your duties.**)

- Drake Ridgeway: I attended meetings, developed the 10 ECUs for routing and Bidirectionality for both bridges.
- Riley Lawson: Debugged, participated, and provided input into bidirectionality along with

creating the report for this week.

- Cody Stricker: I attended meetings and provided input and worked on the development of ECUs connecting and communicating with both bridges.
- Levi Jansen: Helped finish our ECU routing to help with bidirectionality.

• Ryan Scehovic: Worked on bidirectional functionality and testing to send CAN FD messages between our two bridges.

Ryan Campbell: Developed the bidirectionality function to allow a bridge to send and receive by moving around pre-existing code.

• Josue Torres: Touched some of the code while working with everyone, in a group effort to implement the sending and receiving functions of the bridges. Also met with the client to discuss high level implementations.

- **Pending issues** *(If applicable: Were there any unexpected complications? Please elaborate.)*

There were no unexpected complications this week

- **Individual contributions** *(Creating this section is optional, but it is **Required to include the “Hours Worked for the Week” and their “Total Cumulative Hours” for the project for each member somewhere relevant in your report. Your individual weekly hours should be at a minimum of 6-8 hours for this course. So please manage your time well. Also, ensure that individual contributions support your claim to the weekly hours. Be honest with the reports.***)

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b> <i>(Quick list of contributions. This should be short.)</i>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Campbell, Ryan	Bidirectionality	10	76
Jansen, Levi	ECU development	4	40
Lawson, Riley	Bidirectionality	5	43
Ridgeway, Drake	ECU development, Bidirectionality	9	47
Scehovic, Ryan	Bidirectionality	8	82
Stricker, Cody	ECU development	5	45
Torres, Josue (Josh)	Sending/Receiving functions	5	36

- **Comments and extended discussion** *(Optional)*

*Feel free to discuss non-technical issues related to your project.*

- **Plans for the upcoming week** *(Please describe duties for the upcoming week for each member. What is(are) the task(s)?, Who will contribute to it? Be as concise as possible.)*

- Drake Ridgeway: I plan to wrap up the project, clean up code, and prepare presentations for the end of the semester.
- Riley Lawson: To make and prepare the presentation for final reviews along with checking to see if final adjustments need to be made to our code.
- Josue Torres: Make final adjustments to the project. Prepare a poster and presentation to give to industry professionals.
- Cody Stricker: Project wrap up, complete the deliverables and prepare the end of the semester presentation slides.
- Levi Jansen: Work on final presentation slides, help create our poster and prepare for our presentation.
- Ryan Campbell: Wrap up the project, make sure documents are done, presentation, and video.
- Ryan Scehovic: Work on the final report, presentation, and get the code to a final state.

- **Summary of weekly advisor meeting** *(If applicable/optional)*

John, our client, this week gave us good information about design prototypes for our presentation coming up. He also congratulated us on getting Bidirectionality completed.

### **Grading criteria**

Each weekly report is worth 10 points. Scores will be awarded as follows:

- **8 – 10:** Progress for your project seems to be suitable. Documentation and hours reported by team members are adequate.
- **6 – 8:** There is scope of improvement both in your report and your project progress. Can consult with instructor/TA after class for further inputs.
- **< 6:** Please talk to instructors/TA after class hours about any difficulties that you/your team is facing.

Each weekly report should be unique in that they have a unique set of supporting details

for your contributions. So please do not just copy your reports from the previous week. In addition, please avoid any personal pronouns (he, she, I, you). Try to keep your reports as neat as possible.