

## sdmay23-15: Mobile Vehicle Cybersecurity with On-board Key Management

Week 1 Report

September 26 - September 30

### Team Members

Baganesra Bhaskaran — *Git Admin*  
 Michael Roling — *Documentor*  
 Alexander Freiberg — *Client Liaison*  
 Chau Wei Lim — *Strategist*  
 Aayush Chanda — *Advisor Liaison*  
 Brian Goode — *Team Organizer*

### Summary of Progress this Report

- We were able to meet with the client last week and get more further insights on concepts being used and needed to be developed for the CAN bus communication encryption project that we are hooked up with.
- Had a meeting with our advisor Prof.Zambreno, to ask about the concepts to start with and discuss about the starting point of our project.
- We were able to find few research papers that talks about the concept and potential solutions that can be helpful for the design of our client's project.

### Pending Issues

- We have struggled on where to start from, and using research papers and articles as a start point to initialize the design of our project.
- Need to communicate with client on which design approach from our findings would be much more effective for the project that we are working on

### Plans for Upcoming Reporting Period

- Another with client, John Potter to present our findings and decide on which approach to move forward with
- Research on existing concepts based on the papers and articles and start develop an effective approach on encrypting the CAN frames in vehicular communication

### Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Baganesra Bhaskaran	Compile documentations and gather information on our team progress	3	0
Michael Roling	Organising, documenting, and compiling research papers to get a better understanding for the direction of our project.	4	

Alexander Freiberg	Scheduled multiple meetings with the client, and communicated with him regarding his expectations for the project. Also researched and organized CAN Encryption and Key Management methods.	3.5	0
Chau Wei Lim	Find out the common time of team members for each meeting with the client and advisor. Discuss and complete on the team contract and user needs documents. Research on paper about CAN Bus encryption methods.	4	0
Aayush Chanda	Communicate with the advisor to keep them updated regularly, along with communicate availabilities in our schedules to set up meetings	4	0
Brian Goode	Arrange meeting times and update progress reports. Make sure the drive is up-to-date.	2	0

**Gitlab Activity Summary**Nothing to report.

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