

# SE 491 – sdmay20-06

## ENGINE DATA ANALYTICS TOOL

### Week 3/13/20 Report

3/13/20 – 4/2/20

Client: Collins Aerospace

Faculty Advisor: Lofti, Ben-Othmane

#### Team Members:

Zak Frisvold - Team Leader  
Thomas Haddy - UI/UX Engineer  
Ryan Radomski - QA Tester  
Will Sartin - Meeting Runner  
John Powen - Scrum Master  
Jamie Raught - New Member

#### Weekly Summary

Began integration of the different components (Front-end views work with the models we created). Introduced a new member -- Jamie Raught.

#### Past Week Accomplishments

- Gave a successful demo of our front end navigation for Collins.
- Was given more data to analyze from Collins.

#### Pending Issues

- Need oracle data for more values to ensure our parsing is correct.
- Need to merge Livecharts with the data parser

#### Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Zak Frisvold	Refactored data parser to conform to .NET framework standards and used the refactored code to create the initial graph.	10	44
Thomas Haddy	Completed the template for the	10	48

	Export View and the Trend Analysis View		
Ryan Radomski	Code to read XML spec into an ARINC-429 parser is completed. Started preliminary unit tests to parse ARINC bit strings.	18	54
Will Sartin	Refactored the original backend parser to correctly extract values for torque. Worked with John and Ryan on the connecting the front end to the back.	15	68
John Powen	Completed app navigation and glued the export and trend components into the main application. Navigation between these pages is done and each has their own viewmodel.	9	83
Jamie Raught	Oriented myself on the project, created a label to label_name dictionary that maps the label numbers with the names.	6	6

### Upcoming Plans for next Week

- Present parser to Product Owners.
- Present application to Product Owners.
- Completed functional Export Parser View in application.
- Functional Trend data page and selected fields.
- Find out if there is any schema for the xml data.

### Summary of Weekly Meeting with Sponsor

We went over correct data parsing and examples of that for the developers working on the parsing tool. We also discussed what frontend needs to show for next week to give Zach and Will a view into what the tool they will be using will look like.