

# SE 491 – sdmay20-06

## ENGINE DATA ANALYTICS TOOL

### Week 10/4/19 Report

9/21/19 – 10/4/19

Client: Collins Aerospace

Faculty Advisor: The 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

#### Weekly Summary

We met as a team to start off what we should be thinking about as far as this project goes. We figured out what languages would be an option as well as where our skills lie. Once we met with our sponsors we developed a more concrete idea of what is required of us. We landed on using C/C++ and C#. We also got some information about what exactly our engine data analysis tool will be like, though we are still waiting on data, and requirements from our sponsor.

#### Past Week Accomplishments

- Discussed the pro's vs con's of programming languages. - Everyone
  - Researched which language is going to be best or what they want
- Met with Client and went through basic requirements for the project - Everyone
- Research on competitor software - Everyone
- A much more formal definition of roles have been assigned so that everyone knows what they should be doing.

#### Pending Issues

- Receive data, which is dependant on the NDAs.
- Get the NDAs, IP, and SAR form filled out.
  - Received from our professor, we need to immediately get our SPonsors to sign it so we can get the data.
- Get formalized document on the requirements from the clients

## Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Zak Frisvold	Researched products similar to our project and what languages they were written in. After determining I would prefer using C/C++, I researched and determined that using VisualStudio would be the best IDE for developing our project if we go that route	6-8	24
Thomas Haddy	I did some research on what IDE's are available to us for coding in C/C++/C#. Also, I did some research with UI/UX design and with C-130 engines.	6-8	25
Ryan Radomski	Researched data format given to us by the client to better understand what sort of parsing technique would be best. I also researched C/C++ parsing techniques in order to get a head start.	6-8	25
Will Sartin	Researched vector canalyzer (as per Sponsor's recommendation) to understand what it is they are trying to achieve.	7, 7	24

John Powen	Participated in discussions regarding roles for the group and team members. Researched programming languages to use, what frameworks are available, etc.	6-8	24
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### Upcoming Plans for next Week

- Receive data and make initial steps for groundwork of the project.
- Create stories and tickets.
- Made the choice to go with C/C++ data parser and C# for gui.
- Normalize IDEs and programming practices to maintain uniformity across the team.
- Research (general research into framework options, parsing ARINC 429, other items that need more information so the group can progress).

### Summary of Weekly Meeting with Sponsor

We discussed what the program should do, show data recorded from a C-130 in a visually pleasing manner. We also talked about the data transfer protocol, ARINC 429, examples of what they want. We talked about the software they told us to research (which was Vector CANalyzer). Lastly we talked about our expectations and what we need from each other so that we may best move forward.