Date	Hours	ID	Comments
6/8/2016	1	1	Researched Project Ideas
6/10/2016	2	1	Researched Project Ideas
6/12/2016	2	1	Researched Project Ideas
6/16/2016	0.5	0	Setup Notebook
6/16/2016	2.5	1	
6/18/2016	0.5	0	Setup Visual Studio Python
6/18/2016	0.5	1	
6/19/2016	2.5	0	Setup Timelog Sheet
6/19/2016	1	1	
6/19/2016	0.5	11	Setup Git Repository
6/19/2016	1.25	2	
6/21/2016	1	3	Start first section
6/22/2016	2.5	3	Almost finished with first section
6/23/2016	0.5	3	Finished first section
6/24/2016	1.5	3	Worked on section 2
6/26/2016	1	3	Downloaded Visual Paradigm and worked to finish section 2
6/26/2016	2.5	3	Created Use Cases for System and worked on section 3
6/26/2016	0.5	5	
6/27/2016	3.5	6	Began making Gantt Chart - Tried a couple different ways ended up using Excel
6/28/2016	1.5	6	Finished Gantt Chart and added current day line
7/2/2016	0.5	6	Started writing up information for the project plan
7/2/2016	0.5	4	Reviewed my Vision Documented and corrected mistakes
7/3/2016	2	6	Worked on the COCOMO of the project and finished section 2
7/4/2016	1	6	Finished the last section
7/4/2016	0.5	8	
7/4/2016	3	9	Completed the SQA document
7/9/2016	2	11	
7/12/2016	2	11	
7/13/2016	0.5	7	
7/13/2016	0.5	10	
7/13/2016	4	11	Got the IDS to read training data from a file and put it into the neural network
7/15/2016	1	11	Started testing a modified version of a neural network, had discrepencies when training on lots of data - possibly overtraining on normal packets
7/16/2016	4	11	Struggled to get the modified version of the neural network to work, getting floating point buffer overflows due to the size of the floats
7/17/2016	1	11	Converting back to the old way and trying something new to get it to work for more data
7/18/2016	2	11	Worked on refactoring data reader to handle reading more data for training the neural network properly, having probems with buffer overflows still

Date	Hours	Task	Description
7/19/2016	4	11	Got the Neural Network working at an average correctness of 92%. The issues for overflows was solved by normalizing the data.
7/20/2016	3	11	Tried to understand how best to optimize the training of the neural network, also plotted outcomes
7/22/2016	3	11	Worked more on the neural network and cleaned up some code
7/23/2016	1.5	12	Began working on the PowerPoint
7/24/2016	5	12	Finished the PowerPoint

Phase 2 Start

Date	Hours	Task	Description
8/23/2016	4	32	Worked on creating a GUI for PyIDS
8/25/2016	2	31	Worked on getting TCP/IP packets
8/28/2016	1	13	Updated Timelog for Phase 2
8/28/2016	2	31	Read TCP/IP RFC and studied headers along with KDData99
8/30/2016	4	31	For some reason the python package I was using (scapy) no longer works, looking into using raw sockets
9/5/2016	2	12	Prepared for the presentation
9/6/2016	1.5	12	Gave presentation
9/11/2016	0.5	18	Creted the formal specificaiton in USE
9/11/2016	1	19	Began writing the formal specificaiton in USE
9/17/2016	0.5	14	Made updates to the Vision Document
9/17/2016	0.5	16	Made updates to the Project Plan
9/18/2016	3.5	19	Finished writing the formal specification in USE
9/18/2016	0.2	15	
9/18/2016	0.2	17	
9/25/2016	1	21	Looked over other Architecture Design Documents and decided on sections
9/25/2016	2.5	22	Began creating the diagrams and writing infromation
9/27/2016	1	22	Worked on the documentation
9/28/2016	1	22	Worked on the documentation
10/1/2016	1	20	
10/2/2016	1	22	Worked on documentation
10/8/2016	4	22	Finished
10/10/2016	1	24	
10/12/2016	1.5	23	
10/14/2016	4	25	
10/14/2016	3	27	Created and wrote technical inspection checklist - decided to have executable prototype inspected
10/15/2016	0.5	26	
10/15/2016	0.5	28	
10/16/2016	7	29	One problem noticed - it will be impossible to collect all the data for the KDD99 dataset needed. The KDD99 has duration that a given connection is open. This has been documented and emailed to Dr. Neilsen.
10/17/2016	2	22	Updated class diagrams

10/17/2016	7	29	Got the program working for an architectural prototype. The network traffic reader can read 10 packets and print out their status according to the neural network.
10/17/2016	2.5	30	Finished making presentation
10/18/2016	1.5	30	Prepared for the presentation and presented

Phase 3 Start

10/22/2016	0.5	34	Setup for Phase 3
10/24/2016	0.5	48	Sent requests for inspection
11/12/2016	0.5	36	
11/12/2016	2.5	37	Finish the user's manual
11/12/2016	0.5	39	
11/12/2016	3.5	40	Created new design and reviewed previous design. Also referenced past materials from CIS 744 for any possible updates.
11/13/2016	1	52	Worked on new GUI Design
11/19/2016	3	35	Added action item to change percentage
11/20/2016	3	52	Developed new GUI for final
11/26/2016	5	52	Developed new GUI for final
11/27/2016	2	52	Developed new GUI for final
12/3/2016	1	41	
12/3/2016	1	50	Reviewed the inspection letters from collegues
12/3/2016	0.5	48	Wrote review on inspection letters
12/3/2016	2	48	Reviewed Tracy Marshall's project
12/4/2016	0.5	45	
12/4/2016	4	46	Worked on graphs and writing up information
12/4/2016	0.5	42	
12/4/2016	1	49	Wrote up reference document
12/4/2016	0.5	53	Created outline for presentation
12/4/2016	0.5	38	Reviewed User Manual and added figures
12/9/2016	7	52	Worked on finishing application and cleaning up
12/10/2016	1	38	Updated UI pictures and added sections for additional GUI options
12/10/2016	2	35	Updated Architecture Design Documents for new features.
12/10/2016	2	41	Updated Component Design Document
12/10/2016	2.5	43	Wrote Unit Tests and System Test Procedure
12/10/2016	0.5	42	Fixed Document Outline
12/10/2016	2	43	Updated Document with Test Results
12/11/2016	4	52	Cleaned up code and worked on any remainin action items
12/11/2016	0.5	44	Review Assessment and rested to ensure correctness
12/11/2016	1	47	Updated documents with latest figures
12/11/2016	3	53	Went over everything and made presentation