Project 2: NRC Electron Microscope Tools

June 22 - July 2 Task Summary

Completed

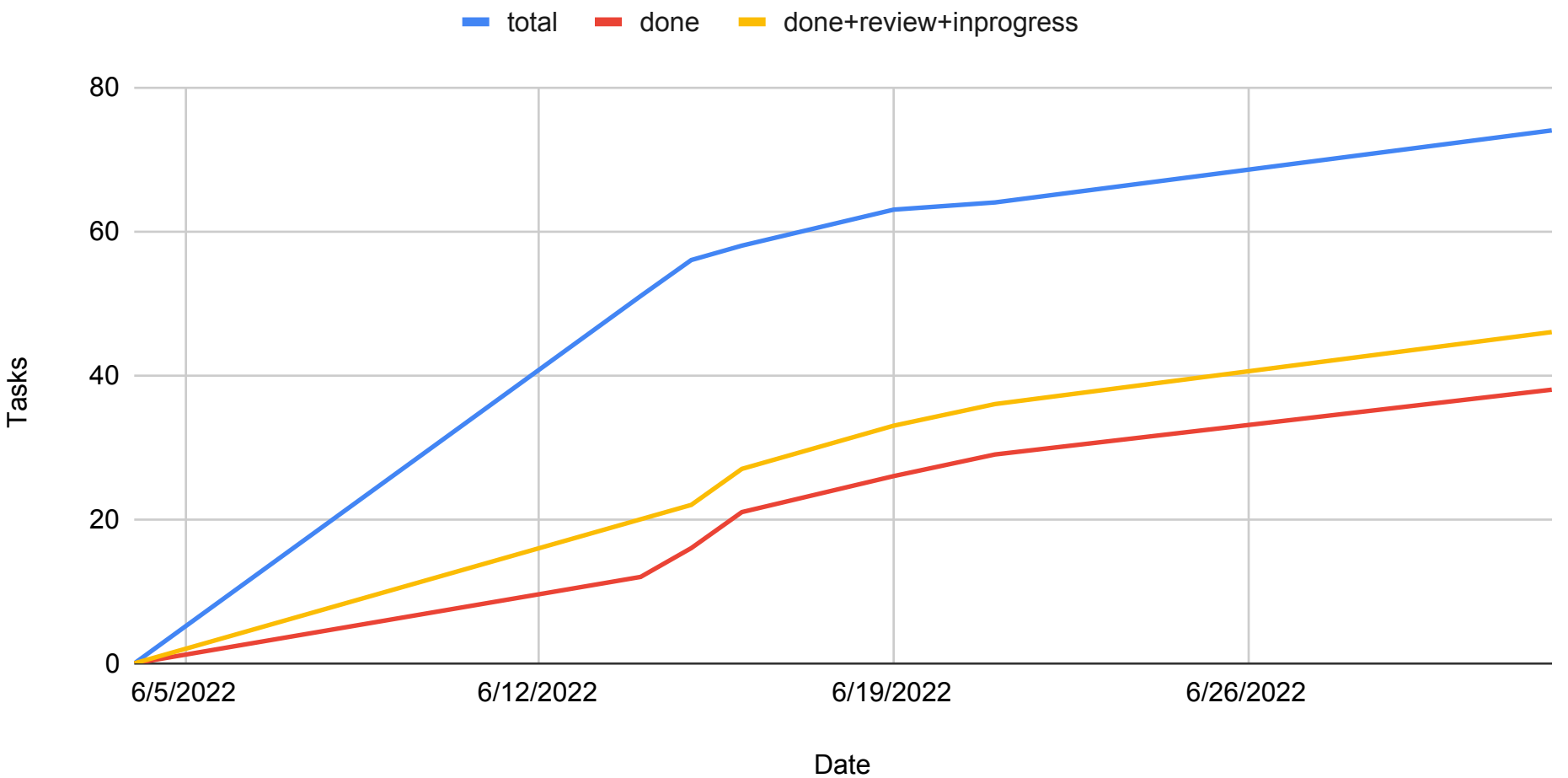
	Title	Assignees	Status	Compl...	Size
1	Integrate transformation engine with GUI	luctowers	done	Jul 2, 2022	medium
2	Implement cross-correlation alignment in engine	luctowers	done	Jul 2, 2022	small
3	Integrate coarse alignment with GUI	luctowers	done	Jul 2, 2022	medium
4	Implement box drawing around plasmons	veengren-s	done	Jun 27, 2022	medium
5	fix double boxes	veengren-s	done	Jun 27, 2022	small
6	Implement non-functional GUI for optimization window	josepena97	done	Jun 25, 2022	small
7	Diagram layout GUI - drawing the lenses/boxes	coffeehousejazz	done	Jun 25, 2022	medium
8	Impliment qEELS UI Logic	veengren-s	done	Jun 24, 2022	medium
9	Implement histogram rendering and controls for contrast adjustment w	luctowers	done	Jun 24, 2022	medium
10	Implement non-functional GUI for manual particle tracking	josepena97	done	Jun 23, 2022	small

Work-in-progress

42	Implement automatic particle tracking engine	luctowers	in progress
43	draw electron beam above the sample	coffeehousejazz	in progress
44	Implement upper lens (above the sample) adjustment calculations	coffeehousejazz	in progress
45	Impliment results saving	veengren-s	in progress
46	Understanding upper lens math	josepena97	in progress

Project 2: NRCEMT Burnup

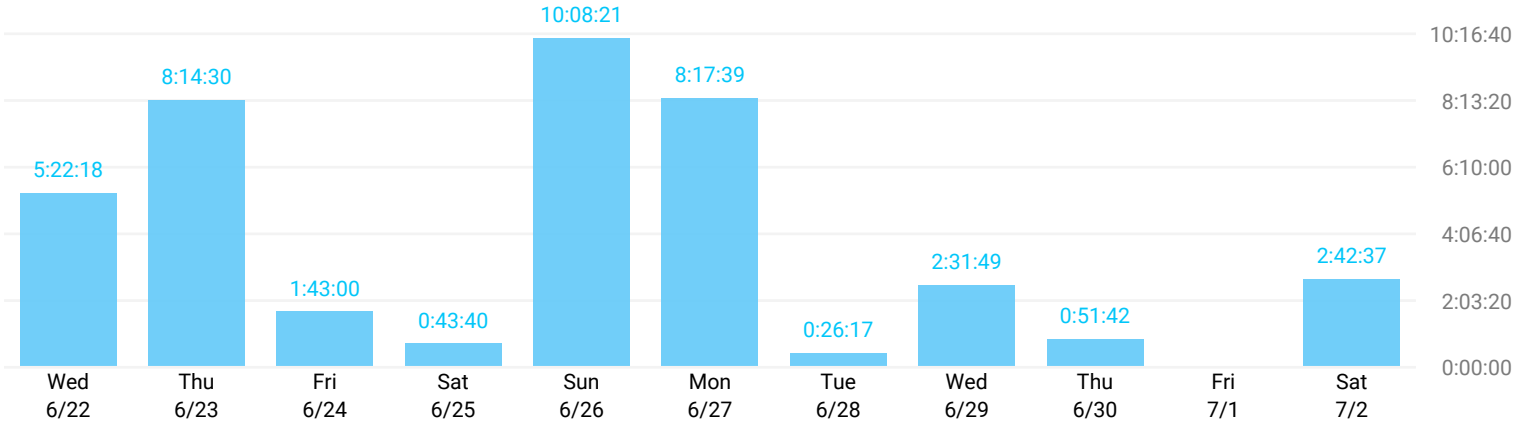
Based on Github Projects board

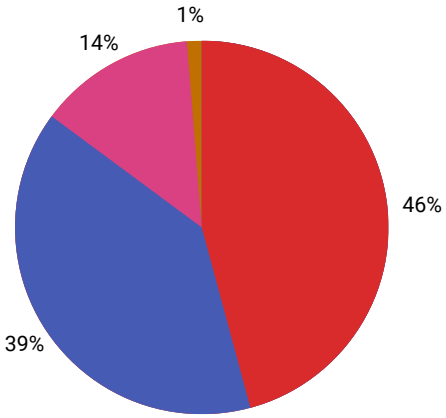


Summary Report

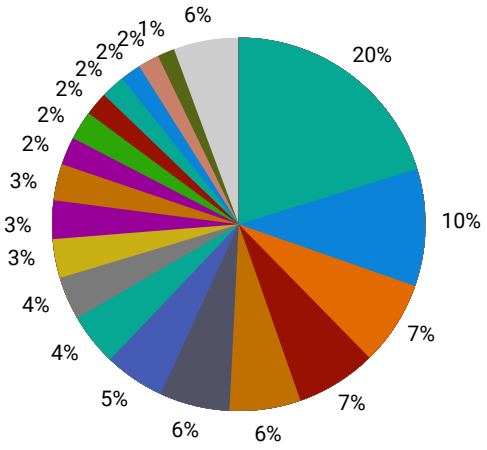
06/22/2022 – 07/02/2022

TOTAL HOURS: 41:01:53





PROJECT	DURATION
Alignment Software • Misa Hayashida	18:47:56
Nanomi Optics • Misa Hayashida	16:08:33
qEELS peak detection • Misa Hayashida	5:32:33
NRC Electron Microscope tools(General) • Misa Hayashida	0:32:51



TIME ENTRY	DURATION
Integrate coarse alignment	8:17:39
Integrate alignment software translation and implement coarse alignment engine	4:09:00
Integrate contrast image contrast adjustment	3:00:30
implimenting square rendering	2:52:02
Nanomy analysis and PR reviews	2:30:00
Implement Automatic Particle Tracking Engine	2:29:05
nanomi upper beam draw	2:10:22
nanomi beam calculations	1:50:37
Without description	1:31:45
nanomi understanding matlab better	1:23:50
#148 Result Saving	1:23:19
#127 qEELS gui logic	1:17:12
Nanomi lense renaming and planning	1:00:00
nanomi planning	1:00:00
Cleanup coarse alignment intgeration pr	0:51:42

nanomi box drawing	0:49:29
nanomi understanding upper beam	0:45:35
Nanomi analysis and refactoring	0:45:00
making documentation	0:35:41
Other time entries	2:19:05

PROJECT - TIME ENTRY	DURATION	PERCENTAGE
Alignment Software • Misa Hayashida	18:47:56	45.82%
Cleanup coarse alignment intgeration pr	0:51:42	2.1%
Implement Automatic Particle Tracking Engine	2:29:05	6.06%
Integrate alignment software translation and implement coarse alignment engine	4:09:00	10.11%
Integrate coarse alignment	8:17:39	20.21%
Integrate contrast image contrast adjustment	3:00:30	7.33%
Nanomi Optics • Misa Hayashida	16:08:33	39.34%
compare legacy python to matlab - electron beam drawing	0:22:31	0.91%
figuring out lens movements from MATLAB	0:21:52	0.89%
making documentation	0:35:41	1.45%
Nanomi analysis and refactoring	0:45:00	1.83%
nanomi beam calculations	1:50:37	4.49%
nanomi box drawing	0:49:29	2.01%
nanomi draw anode	0:04:48	0.19%

PROJECT - TIME ENTRY	DURATION	PERCENTAGE
nanomi drawing - instance variables	0:19:10	0.78%
Nanomi lense renaming and planning	1:00:00	2.44%
nanomi planning	1:00:00	2.44%
nanomi understanding matlab better	1:23:50	3.41%
nanomi understanding upper beam	0:45:35	1.85%
nanomi upper beam draw	2:10:22	5.3%
Nanomy analysis and PR reviews	2:30:00	6.09%
new pr for math	0:07:16	0.3%
pair programming with jose - nanomi	0:30:37	1.24%
Without description	1:31:45	3.73%
NRC Electron Microscope tools(General) • Misa Hayashida	0:32:51	1.33%
Compiiling weekly report	0:13:32	0.55%
learning about good code documentation practice	0:19:19	0.78%
qEELS peak detection • Misa Hayashida	5:32:33	13.51%
#127 qEELS gui logic	1:17:12	3.14%
#148 Result Saving	1:23:19	3.38%
implimenting square rendering	2:52:02	6.99%