Project 2: NRC Electron Microscope Tools

June 22 - July 7 Task Summary

Completed

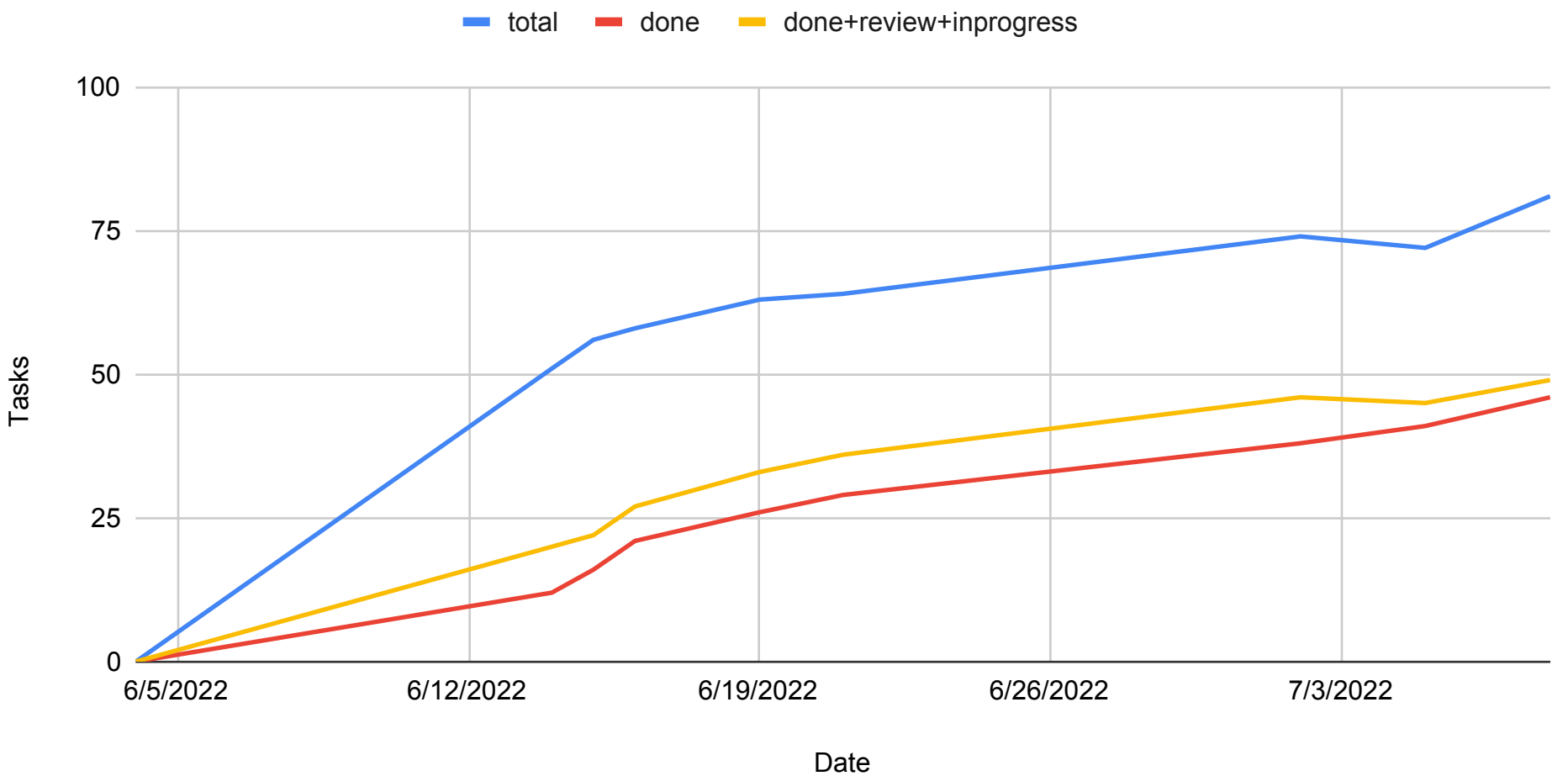
	Title	Assignees	Status	Compl...	Size
1	Plan oop design for nanomi lenses	josepena97	done	Jul 7, 2022	medium
2	Implement upper lens (above the sample) adjustment calc	coffeehousej...	done	Jul 7, 2022	large
3	make upper beam sliders work!	coffeehousejaz	done	Jul 7, 2022	small
4	Impliment results saving	veengren-s	done	Jul 7, 2022	medium
5	revise code to the Tkinter standards	coffeehousejaz	done	Jul 7, 2022	x-small
6	draw electron beam above the sample	coffeehousejaz	done	Jul 6, 2022	large
7	Understanding upper lens math	josepena97	done	Jul 5, 2022	size unknown
8	Implement automatic particle tracking engine	luctowers	done	Jul 4, 2022	large
9	Integrate transformation engine with GUI	luctowers	done	Jul 2, 2022	medium
10	Implement cross-correlation alignment in engine	luctowers	done	Jul 2, 2022	small
11	Integrate coarse alignment with GUI	luctowers	done	Jul 2, 2022	medium
12	Implement box drawing around plasmons	veengren-s	done	Jun 27, 2022	medium
13	fix double boxes	veengren-s	done	Jun 27, 2022	small
14	Implement non-functional GUI for optimization window	josepena97	done	Jun 25, 2022	small
15	Diagram layout GUI - drawing the lenses/boxes	coffeehousejaz	done	Jun 25, 2022	medium
16	Impliment qEELS UI Logic	veengren-s	done	Jun 24, 2022	medium
17	Implement histogram rendering and controls for contrast a	luctowers	done	Jun 24, 2022	medium
18	Implement non-functional GUI for manual particle tracking	josepena97	done	Jun 23, 2022	small

Work-in-progress

	Title	Assignees	Status
47	Implement peak detection and core calculations in qEELS	veengren-s	in progress
48	Integrate automatic particle tracking	luctowers	in progress
49	Integrate backend upper lens (above the sample) calculation	coffeehousejazz	in progress

Project 2: NRCEMT Burnup

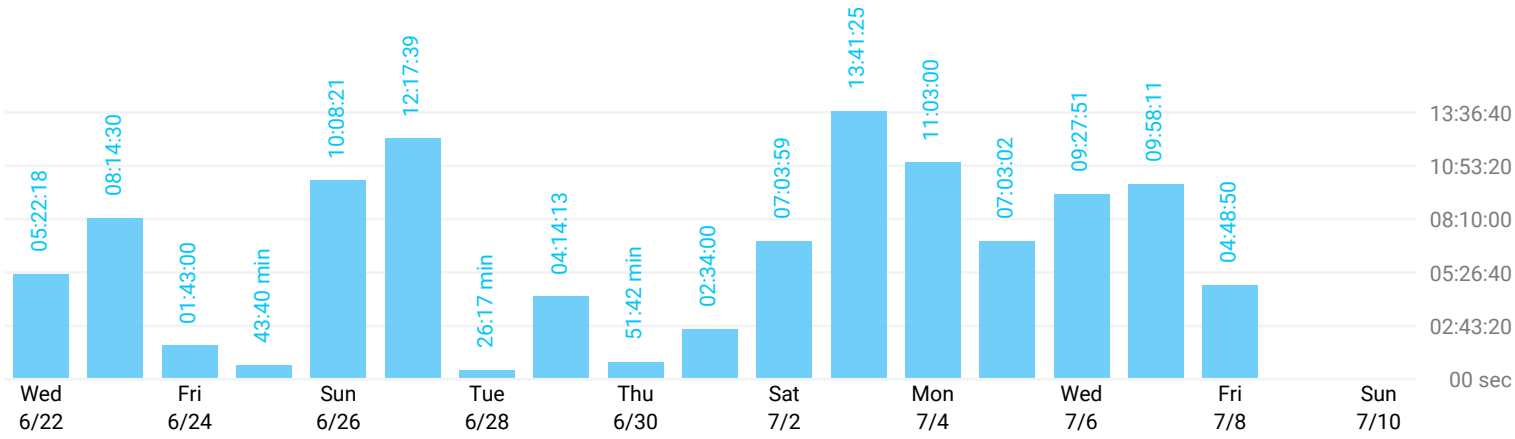
Based on Github Projects board

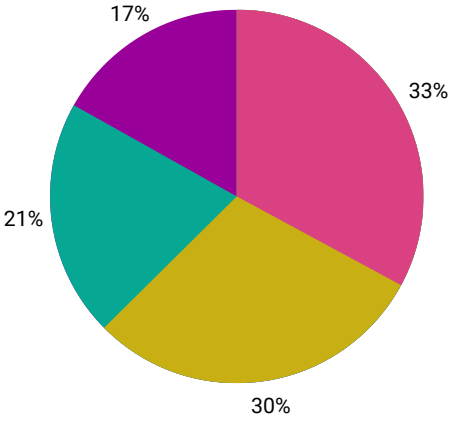


Summary Report

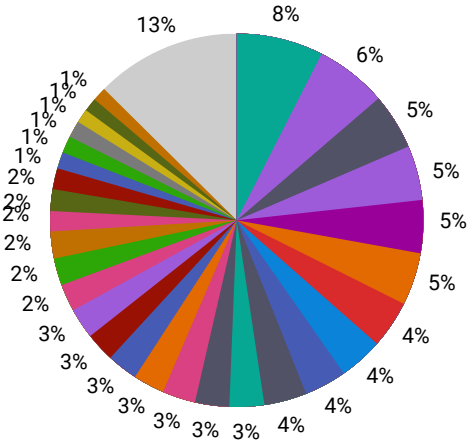
06/22/2022 – 07/10/2022

TOTAL HOURS: 109:41:58





USER	DURATION
JM Jasmine Mishra	36:07:26
LT Lucas Towers	32:33:32
JP Jose Pena	22:30:00
GC Garrett Cook	18:31:00

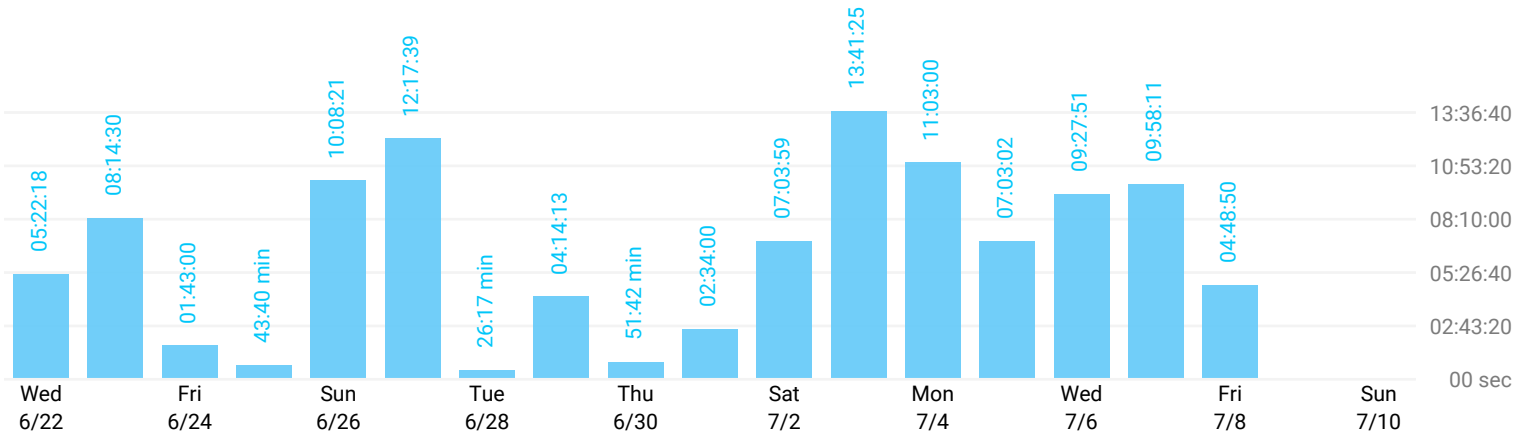


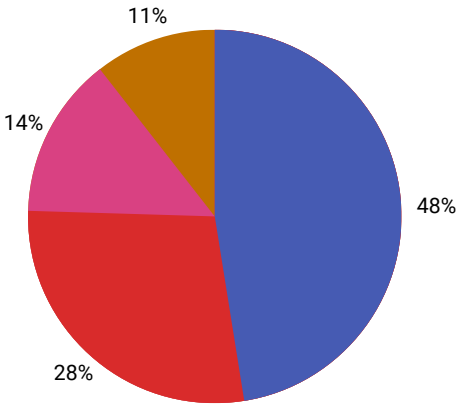
TIME ENTRY	DURATION
Integrate coarse alignment	08:17:39
Integrate automatic tracking with GUI	06:42:31
Implement Automatic Particle Tracking Engine	05:15:45
checking and testing	05:15:43
#148 Result Saving	05:01:02
Analyzing Legacy code and planning OOP approach	05:00:00
Nanomi review and pair programming	04:30:00
Integrate alignment software translation and implement coarse alignment engine	04:09:00
nanomi upper beam draw	04:04:36
Analyzing legacy and current software	04:00:00
nanomi beam calculations	03:18:02
MVP - presentation	03:10:17
Nanomi math OOP	03:10:00
Integrate contrast image contrast adjustment	03:00:30
presentation	02:52:31

Summary Report

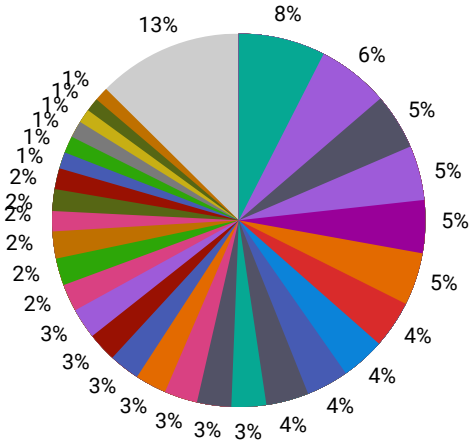
06/22/2022 – 07/10/2022

TOTAL HOURS: 109:41:58





PROJECT	DURATION
Nanomi Optics • Misa Hayashida	52:07:23
Alignment Software • Misa Hayashida	30:42:20
qEELS peak detection • Misa Hayashida	15:20:43
NRC Electron Microscope tools(General) • Misa Hayashida	11:31:32



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Integrate coarse alignment	08:17:39
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nanomi beam calculations	03:18:02
MVP - presentation	03:10:17
Nanomi math OOP	03:10:00
Integrate contrast image contrast adjustment	03:00:30
presentation	02:52:31

implimenting square rendering	02:52:02
#167 qeels peak detection	02:48:50
upperbeams spinbox	02:37:43
Refactoring	02:34:00
Nanomy analysis and PR reviews	02:30:00
Compiling Testing Report	02:02:53
pair programming	02:01:05
Add particle series container for autmatic tracking GUI	02:00:00
MVC Presentation meeting	01:35:00
figuring out on/off button + adding disable function to link	01:33:58
Without description	01:31:45
nanomi understanding matlab better	01:23:50
presentation planning	01:18:00
#127 qEELS gui logic	01:17:12
Other time entries	13:48:04

USER - TIME ENTRY	DURATION	PERCENTAGE
GC Garrett Cook	18:31:00	16.88%
#127 qEELS gui logic	01:17:12	1.17%
#148 Result Saving	05:01:02	4.57%
#167 qeels peak detection	02:48:50	2.57%
implimenting square rendering	02:52:02	2.61%
MVP - presentation	03:10:17	2.89%
Refactoring	02:34:00	2.34%
refactoring	47:37 min	0.72%
JM Jasmine Mishra	36:07:26	32.93%
checking and testing	05:15:43	4.8%

USER - TIME ENTRY	DURATION	PERCENTAGE
code review	42:28 min	0.65%
compare legacy python to matlab - electron beam drawing	22:31 min	0.34%
double check	58:54 min	0.89%
figuring out lens movements from MATLAB	21:52 min	0.33%
figuring out on/off button + adding disable function to link	01:33:58	1.43%
fixing code	32:43 min	0.5%
go over code with Lucas	33:02 min	0.5%
learning about good code documentation practice	19:19 min	0.29%
making documentation	45:41 min	0.69%
nanomi beam calculations	03:18:02	3.01%
nanomi box drawing	49:29 min	0.75%
nanomi draw anode	04:48 min	0.07%
nanomi drawing - instance variables	19:10 min	0.29%
nanomi planning	01:00:00	0.91%
nanomi understanding matlab better	01:23:50	1.27%
nanomi understanding upper beam	45:35 min	0.69%
nanomi upper beam draw	04:04:36	3.72%

USER - TIME ENTRY	DURATION	PERCENTAGE
new pr for math	24:16 min	0.37%
pair programming	02:01:05	1.84%
pair programming with jose - nanomi	30:37 min	0.47%
planning out future tasks	01:03:12	0.96%
presentation	02:52:31	2.62%
presentation planning	01:18:00	1.19%
tkinter standardization	36:36 min	0.56%
upperbeams spinbox	02:37:43	2.4%
Without description	01:31:45	1.39%
JP Jose Pena	22:30:00	20.51%
Analyzing legacy and current software	04:00:00	3.65%
Analyzing Legacy code and planning OOP approach	05:00:00	4.56%
MVC Presentation meeting	01:35:00	1.44%
Nanomi analysis and refactoring	45:00 min	0.68%
Nanomi lense renaming and planning	01:00:00	0.91%
Nanomi math OOP	03:10:00	2.89%
Nanomi review and pair programming	04:30:00	4.1%

USER - TIME ENTRY	DURATION	PERCENTAGE
Nanomy analysis and PR reviews	02:30:00	2.28%
LT Lucas Towers	32:33:32	29.68%
Add particle series container for autmatic tracking GUI	02:00:00	1.82%
Cleanup coarse alignment intgeration pr	51:42 min	0.79%
Compiiling weekly report	13:32 min	0.21%
Compiling Testing Report	02:02:53	1.87%
Implement Automatic Particle Tracking Engine	05:15:45	4.8%
Integrate alignment software translation and implement coarse alignment engine	04:09:00	3.78%
Integrate automatic tracking with GUI	06:42:31	6.12%
Integrate coarse alignment	08:17:39	7.56%
Integrate contrast image contrast adjustment	03:00:30	2.74%