

**BP Simulated Wind Turbine
and Wind Farm Generation –
Control and Optimization**

Project Status Report

To: Glenn Gesoff, BP; Ian Alleyne, BP

From: Bert Yan, Penn State University;
David Rohrbaugh, Penn State University;
Marissa Stecko, Penn State University;
Nelloe Anonyuo, Penn State University;
Scott Carroll, Penn State University;
Seyilayo Olagbami, Penn State University;
Shuaipeng Dong, Penn State University

cc: Al Verbanec, Penn State University

Date: 9/11/2022

Re: Status report, week #3

Quick status

Number of tasks scheduled this week:	2
Number of tasks completed this week:	2
Hours spent this week:	18.5
Hours spent this semester:	52.5
Project hours spent this semester (remove classwork hours):	16
Remaining number of tasks:	N/A
Remaining estimated hours:	N/A
Remaining estimated project hours:	N/A

Narrative

In the past week we continued researching various software's that we could potentially use to model the wake of the wind turbine. On Tuesday we met with our sponsor to further discuss what we have researched and what they expect our group to produce. In the meeting we also discussed various programs that our sponsor has found. At this point, the team has narrowed down to five potential platforms to build our deliverables on: OpenFAST, QBlade, PyWake, Ashes, Floris.

Tasks *completed*

List the tasks from the previous week's status report that were *completed*, along with a brief description of any issues or problems that were encountered. Include who did the work and how long it took that person / those people in actual hours spent. (Obviously this is blank the first time.)

Task completed	Code ¹	Who did the work and actual hours spent
Literature Review	C	Bert(5), David(1.5), Marissa (2.5), Scott (.5), Seyilayo(1), Shuaipeng(1.5), Nelloe(1)
Research	C	David(2), Marissa (1), Bert(2)
Status Report Completion	C	Bert(0.5), David, Marissa(0.5), Scott(.5), Seyilayo, Shuaipeng, Nelloe
Weekly Update Meeting w/ BP	I	All (1)

Tasks *not* completed that were scheduled for completion

List the tasks from the previous week's status report that were *not* completed, along with an explanation of why the task is not completed. (Obviously this is blank the first time.) Include an explanation of why the task was not completed.

**** all tasks were completed this week**

Task	Code	Explanation of why the task was not completed	Who did the work and actual hours spent
			N/A
			N/A

¹ The Code is one of these: (A)administrative task (e.g., meetings, paperwork for LF), (C)lasswork, (I)nteraction with client, (D)esign work, (P)rogramming, (O)ther

Total time spent | Show the totals of time by code for the week and for the project so far.

Code	This week	Entire project
Administrative	0	13.75
Classwork	13	14
Interaction with client	1	7.7
Design work	0	0
Programming	0	0
Other	5	5
Totals:	18.5	52.5
Estimated time:	N/A	N/A

Code	Time spent this week	Time spent entire project
N/A	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
Totals:	N/A	N/A

Tasks for next week

List the tasks that will be completed next week. Include a brief explanation of each and who is responsible for doing those tasks. *Include those tasks from the prior week that were not completed.*

Task	Code	Description	Who is assigned + estimated total hours
Project Proposal/ Statement of Work	C	Fill out all the sections of the template report to this assignment	All (15-20 hours)
Status Report Week 4	C	Complete the weekly status report and enter your personal hours logged	All (1.5 hours)
Weekly Meeting w/ BP	I	Attend weekly teams meeting	All (1 hour)

Upcoming tasks

This list should be everything that is in your work breakdown structure but that is not scheduled for this week and also not yet completed. Include the code and the expected week of completion. Essentially, this list should get shorter every week as you proceed toward the completion of the project.

Task	Code/ Week	Description	Estimated total hours
Design Specification Report	C/ Wk 5	Details on canvas	~15-20 hours
Status Report Week 5	C/ Wk 5		N/A
Week 5 Weekly Meeting	I/ Wk 5	Teams meeting with BP	1 hour
Project Presentation (video)	C / Wk 6	Project scope summary to be presented to classmates	N/A
Status Report Week 6	C/ Wk 6		N/A
Week 6 Weekly Meeting	I/ Wk 6	Teams meeting with BP	1 hour

Sign off

Each group member must sign off on the status report. Electronic signatures are okay, but they must be approved by the group member (not just automatically included w/o review). Note that if someone submits this report without all group members' actual approval, this is a violation of protocol.

<u>Bert Yan</u>	<u>9/11/2022</u>	<u>David Rohrbaugh</u>	<u>9/11/2022</u>
Bert Yan	date	David Rohrbaugh	date

<u>Scott Carroll</u>	<u>9/11/2022</u>	<u>Marissa Stecko</u>	<u>9/11/2022</u>
Scott Carroll	date	Marissa Stecko	date

<u>Nelloe Anonyuo</u>	<u>9/11/2022</u>	<u>Shuaipeng Dong</u>	<u>9/11/2022</u>
Nelloe Anonyuo	date	Shuaipeng Dong	date

<u>Seyilayo Olagbami</u>	<u>9/11/2022</u>
Seyilayo Olagbami	date

