EGH455-Team #2 (Week 2)

MINUTES OF MEETING

Place: **O303**	Author: Alexander Iftene	Date: 30/07/2020 Start Time: 1300 End Time: 1330
1. Subject: Project Overview		**Total Pages: 2**

2. Agenda:

1. Discussing the dedication of roles amongst the team.
2. Brief discussion of future developments.

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manager and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. Main conclusions and meetings planned:

1. The progress of each subsystem discussed, no main issues that need assistance.
2. Understanding the roles assigned to everyone.
3. Discussing the requirements of the assigned roles.
4. Research for next week.

5. Signatures:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**	
	Responsible Person	Due Date
Continue working on subsystem	All	N/A
Discuss team roles	All	N/A
Designate team roles	All	N/A
Look into responsibilities	All	06/08/20

EGH455-Team #2(Week 3)

MINUTES OF MEETING

Place:	Author:	Date: 06/08/2020
O303	Alexander Iftene	**Start Time: 1300**
		End Time: 1330

1. Subject: Mechanics of ConOps	**Total Pages: 2**

2. Agenda:

1. Brainstorming web visualisation system.
2. Understanding ConOps.
3. Figure out how to develop front end and back end system

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manger and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. Main conclusions and meetings planned:

1. Python Flask will be used for the front end of the Web Visualisation.
2. Discussed how the front end and back end systems will communicate.
3. Brainstorming different environments to use for Image Processing.
4. ConOps dissection planned for following meeting.

5. Signatures:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**	
	Responsible Person	Due Date
Continue working on subsystem	All	N/A
Discuss different web frameworks (Flask, Django etc)	Brian Sivertsen	N/A
Brainstorm ConOps and how to implement systems	All	N/A
Finalise system to use for designing CAD model	Alexander Iftene	16/08/20

EGH455-Team #2(Week 4)

MINUTES OF MEETING

Place: **O303**	Author: Alexander Iftene	Date: 13/08/2020
		Start Time: 1300
		End Time: 1330

1. Subject: Finalising design components for payload and web visualisation backend/frontend components.	**Total Pages: 2**

2. Agenda:

1. Discuss the design of CAD model.
2. Discuss which program to use for the CAD model.
3. Brainstorm with team about project responsibilities/progress.
4. Discuss Air sensory mechanics.

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manger and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. Main conclusions and meetings planned:

1. Web visualisation front end and back end system finalised.
2. Team will utilise Anaconda for Image Processing system.
3. Air sensory system readings developed and tested.

5. Signatures:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**	
	Responsible Person	Due Date
Continue working on subsystem	All	N/A
CAD model revisited and discussed, continue working	Alexander Iftene	21/08/20
Air sensory systems alpha stage development achieved	Adrian J. Hiltunen	N/A
Continue working on Image Processing system	James Arnold and Oliver Campbell	20/08/20
Continue to develop on web visualisation	Brian Sivertsen	22/08/20

EGH455-Team #2(Week 5)

QUT Queensland University of Technology

MINUTES OF MEETING

Place: **O303**	**Author:** Alexander Iftene	**Date: 20/08/2020** **Start Time: 1300** **End Time: 1330**
1. Subject: Finalise CAD model design, dedicate resources to development of PMP and discuss progress on respective subsystems.		**Total Pages: 2**

2. Agenda:

1. Dissect parts for PMP.
2. Allocate jobs for development of PMP document.
3. Touch base with Web Visualisation and Air Quality Sensor progress.
4. Brainstorm framework for Image Processing team.

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manager and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. Main conclusions and meetings planned:

1. CAD model finalised.
2. Google drive set up for development of PMP and allocated jobs.
3. Web Visualisation framework finalised.
4. Image Process framework finalised.
5. PMP progress check for next meeting.

5. Signatures:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**	
	Responsible Person	Due Date
Continue working on subsystem	All	N/A
PMP sections designated to team members	Alexander Iftene	N/A
Discussed Image Processing framework and method to develop training models	James Arnold and Oliver Campbell	N/A
Continue working on PMP and progress check	All	27/08/20
ConOps finalised	All	N/A

QUT Queensland University of Technology

EGH455-Team #2(Week 6)

MINUTES OF MEETING

Place:	Author:	Date: 26/08/2020
O303	Alexander Iftene	**Start Time: 1100**
		End Time: 1700

1. Subject: Finalise PMP document for submission.	Total Pages: 2

2. Agenda:

1. Discuss progress for PMP.
2. Work on WP for each group member.
3. Finalise ConOps and Gantt Chart.
4. Complete System Architecture.
5. Develop Preliminary Subsystem Designs for each member.

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manager and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. Main conclusions and meetings planned:

1. PMP must be finalised before due date.
2. Team members understand what needs to be done for PMP.
3. Discussed and dissected WP for each member.
4. Added more documents to Google Drive for PMP development.
5. Progress report for each respective subsystem for next meeting.

5. Signatures:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**	
	Responsible Person	Due Date
Continue working on subsystem	All	N/A
PMP Gantt Chart completion	Adrian J. Hiltunen	N/A
PMP System Architecture completion	Brian Sivertsen	N/A
PMP Meeting Minutes completion	Alexander Iftene	N/A
PMP ConOps completion	Alexander Iftene	N/A
WPs finalised and imported into PMP	James Arnold and Oliver Campbell	N/A
Finalise rest of PMP report	All	28/08/20

EGH455-Team #2 (Week 7)

QUT Queensland University of Technology

MINUTES OF MEETING

Place:	Author:	Date: 03/09/2020
O303	Alexander Iftene	**Start Time: 1100**
		End Time: 1700

1. Subject: Discuss subsystems.	**Total Pages: 2**

2. Agenda:

6. Discuss the subsystems required for each team member.
7. Making sure everyone understands the requirements of each subsystem.
8. Image Processing department commences development.
9. Sensory Data department commences development.
10. Web Visualisation department continues development.

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manager and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. <u>Main conclusions and meetings planned</u>:		
6. Members understand their trajectory for their respective subsystem.		
5. <u>Signatures</u>:		
Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**	
	Responsible Person	Due Date
Continue working on subsystem	All	N/A
Uploading to Google Drive	All	N/A

EGH455-Team #2 (Week 8)

Queensland University of Technology

MINUTES OF MEETING

Place:	**Author:**	**Date: 10/09/2020**
O303	Alexander Iftene	**Start Time: 1100**
		End Time: 1700

1. Subject: Image processing development and dissection.	**Total Pages: 2**

2. Agenda:

11. Image processing department choose to use CNNs for machine learning.
12. Designing the format for how to process the images through to the server.

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manager and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. <u>Main conclusions and meetings planned</u>:

7. Members will continue to work on the Image processing for the product.
8. TensorFlow and MATLAB are to be used for this system.

5. <u>Signatures</u>:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**	
	Responsible Person	Due Date
Image processing team collaborating	James and Oliver	N/A
Uploading to Google Drive	All	N/A
Continuation with web visualisation design	Brian Sivertsen	

EGH455-Team #2 (Week 9)

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MINUTES OF MEETING

Place:	Author:	Date: 17/09/2020
O303	Alexander Iftene	**Start Time: 1100**
		End Time: 1700

1. Subject: Sensor and data acquisition methodology discussion.	**Total Pages: 2**

2. Agenda:

  13. Determining the best systems to use for the acquisition of sensory data.
  14. How to port the data onto the web server for visualisation.

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manager and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. Main conclusions and meetings planned:

9. Sensory data will be achieved read using lots of open source libraries found on the internet.
10. Web visualisation lead will integrate with sensory data team to get results working.

5. Signatures:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**		
		Responsible Person	Due Date
Image processing team collaborating		James and Oliver	N/A
Sensory and data collaborating with WV		Adrian and Brian	N/A
Documentation of subsystems		Alexander Iftene	N/A

EGH455-Team #2 (Week 10)

Queensland University of Technology

MINUTES OF MEETING

Place: **O303**	**Author:** Alexander Iftene	**Date: 25/09/2020**
		Start Time: 1100
		End Time: 1700

1. Subject: Putting together all components of subsystems. | **Total Pages: 2**

2. Agenda:

15. Testing to see if image processing, sensory data acquisition and web visualisation can integrate properly.

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manager and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. <u>Main conclusions and meetings planned</u>:

    11. Integration of subsystems work fine.
    12. No inhibitions from any co-dependent subsystem.
    13. Final design of enclosure must be printed for demonstration.

5. <u>Signatures</u>:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**	
	Responsible Person	Due Date
Image processing team continue work	James and Oliver	N/A
Web visualization team continue work	Brian	N/A
Enclosure team continue work	Alexander	N/A
Sensory systems team continue work	Adrian	N/A

EGH455-Team #2 (Week 11)

Queensland University of Technology

MINUTES OF MEETING

Place:	Author:	Date: 10/10/2020
O303	Alexander Iftene	**Start Time: 1100**
		End Time: 1700

1. Subject: Putting together all components of subsystems.	**Total Pages: 2**

2. Agenda:

16. Enclosure printing.
17. More unit testing for each subsystem.

3. Attendants:

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manager and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. <u>Main conclusions and meetings planned</u>:

14. Each subsystem is now integrated and works as per system requirements document.
15. Enclosure is printed and ready for demomstration.

5. <u>Signatures</u>:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	**ACTIONS**	
	Responsible Person	Due Date
Image processing team continue work	James and Oliver	N/A
Web visualization team continue work	Brian	N/A
Enclosure team continue work	Alexander	N/A
Sensory systems team continue work	Adrian	N/A
Development of reports underway	Alexander	N/A

EGH455-Team #2 (Week 12)

Queensland University of Technology

MINUTES OF MEETING

Place:	**Author:**	**Date: 17/10/2020**
O303	Alexander Iftene	**Start Time: 1100**
		End Time: 1700

1. <u>Subject:</u> Putting together all components of subsystems.	**Total Pages: 2**

2. <u>Agenda:</u>

    18. Demonstration of product for customer.
    19. Preparation of oral presentation.
    20. Finalising the documentation for PMP and other relevant documents.

3. <u>Attendants:</u>

Name	Initials	Subsystem lead	Subsystem initials
Alexander Iftene	AI	Project Manager and 3D CAD Designer	PM/3DCADD
Brian Sivertsen	BS	Web Visualisation	WV
Oliver Campbell	OC	Targeting Acquisition and Image Processing	TAIP
Adrian J. Hiltunen	AJH	Air Quality and Sensors	AQS
James Arnold	JA	Targeting Acquisition and Image Processing	TAIP

4. Main conclusions and meetings planned:

    16. Product was presented for customer and requirements were satisfied.
    17. Preparation of the oral presentation was underway.
    18. Documentation of systems is underway as per project manager discretion.

5. Signatures:

Name	Id Number	Signature
Alexander Iftene	9657533	AI
Brian Sivertsen	9746277	BS
Oliver Campbell	9958711	OC
Adrian J. Hiltunen	9561498	AJH
James Arnold	9181016	JA

MINUTES OF MEETING	ACTIONS	
	Responsible Person	Due Date
Oral presentation work and upload	All	N/A
PMP and other documentation upload	All	N/A