

EG-252: Group Design Exercise

Team Building Exercise

Skill/Task Matrix

This is a rough draft of what I remember from the skills identification and team building exercise that took place at the start of the GDE. Actual teams will be announced at the start of the class on 9th October and I will be showing you how to create Microsoft Team sites which you can use for team communications, document collaboration, planning and meetings. This is a guide and you are encouraged to discuss it within your own team and modify it as necessary to identify particular strengths and weaknesses in your team. Once you have agreed on your list of roles and the skills needed, you need to identify which team member will be responsible for each

A version of this skills matrix will be required as part of the initial deliverables on the project.

Role	Skill	Needed for (system or activity)	Who?
Manager	Management	Project	Peter + Salman
Project Planner	Planning	Project	Ethan + Henry
Researcher	Organisation, record keeping	Project/Subsystems	Henry + Salman
Electronic Hardware		Sensors, Drives Microprocessor system	
Hardware Designer	Designer	Designs the systems for MicroMouse	Ethan + Peter
Hardware Technician & Builder	Technician	Builds the MicroMouse	Salman + Peter
Hardware Tester	Tester	Tests for any errors within the MicroMouse operations	Henry + Salman
Software		Sensor inputs, Motor control, Mouse operation	
Software Designer	Designer	Designs & visualises the overall structure of the code	Ethan + Peter
Software Creator & Builder	Coder	Programmes functions and other subroutines.	Ethan + Peter
Software Tester	Tester	Runs tests on functions & tests final result, to ensure no errors.	Ethan + Henry + Salman
Mechanical Hardware		Shell, Component assembly	
CAD lead	CAD	MicroMouse shell	Henry + Peter
Hardware Construction	Construction	MicroMouse construction	Salman + Peter
Sensors		Microprocessor inputs	
Sensor Experiment	Experimenter	This role will experiment with sensors to find the exact parameters – and how we can implement them onto the MicroMouse	Ethan + Salman
Sensor Integrator	Integrator	This role will integrate the sensor outputs to be compatible with the software.	Salman + Peter
Sensor Tester	Tester	This role will ensure that the sensors work correctly – and that they are comparable with their data sheet.	Ethan + Henry

Documentation		Project planning, Progress reports, Paper-based and electronic deliverables, Hardware, Software, Experimental results	
Main Writer	Writer	Writes a detailed report on the group's findings, and progress.	Peter + All
Artist for Documentation	Graphic Artist	The graphic artist will be responsible for creating visual aid for the project	Salman + Henry
Data analyst	Data analyst	The data analyst will be responsible for different types of statistical methods of reviewing our data from tests	Ethan + Henry
Editor for Documents	Editor	The editor will be responsible for reviewing our documents and making relevant changes .	Ethan + Peter
Web Site		Documentation repository, Publicity, Collaboration	
Website Keeper	Web Master	Creates source code/builds website	Ethan + Peter
Web Designer	Web Design	Creates a visual style to the website (CSS/javascript could be used)	Ethan + Peter
Graphic Artist	Graphics	Design logo & Website art	Salman + Henry

Signatures

- Peter Liff - Peter

- ED

- Zhu Hao

- [Signature]