

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 | Jack |
| Project Planner | Planning | Project | William |
| Researcher | Organisation, record keeping | Project/Subsystems | Modou |
| Electronic Hardware | | Sensors, Drives Microprocessor system | |
| Wiring breadboards, connecting components and linking to the raspberry pi | Designer | Project | Modou, Athby |
| | Technician | Project | William, Jack |
| | Tester | Project | Jack, william, Modou |
| Software | | Sensor inputs, Motor control, Mouse operation | |
| Making code using C to work with the hardware to | Designer | Project | Modou |
| | Coder | Project | Jack , Modou |

| | | | |
|--|----------------|---|----------------------|
| do certain tasks (follow line etc) | Tester | Project | Jack, modou, William |
| Mechanical Hardware | | Shell, Component assembly | |
| Make the shell to go over the micromouse | CAD | Project | William, Modou |
| | Construction | Project | Athby, Jack |
| Sensors | | Microprocessor inputs | |
| Work closely with the hardware and software to have the sensors detect and work as intended as input | Experimenter | Project | Modou, Jack |
| | Integrator | Project | Modou, Jack |
| | Tester | Project | Modou, Jack |
| Documentation | | Project planning, Progress reports, Paper-based and electronic deliverables, Hardware, Software, Experimental results | |
| Keep track of work we have done from all roles | Writer | Project | William, Athby |
| | Graphic Artist | Project | Jack |
| | Data analyst | Project | Modou |
| | Editor | Project | William, Jack, Modou |
| Web Site | | Documentation repository, Publicity, Collaboration | |
| Build a website to display the documentation | Web Master | Project | Athby, Modou |
| | Web Designer | Project | Athby, Modou |
| | Graphic Artist | Project | Athby, Modou |

Revised Document: eg-252-skill-matrix-v1.2 Uploaded to Blackboard 3 October 2018 by C.P. Jobling.

Signatures:

Jack (2216302):

A handwritten signature in black ink that reads "J Hunter". The letters are cursive and connected.

William(2221001):

A handwritten signature in black ink consisting of a series of connected, fluid strokes that do not clearly form a name.

Modou (2122666):

A handwritten signature in black ink featuring a large, stylized loop at the top and several sweeping, connected strokes below.

Athby(2233377)

A handwritten signature in black ink with a very large, prominent loop at the top right and several long, sweeping strokes extending downwards and to the left.