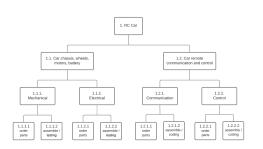
## Capstone Planning Tables and Diagrams

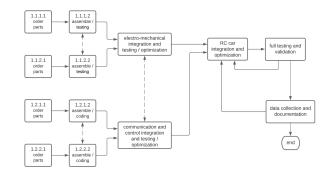
The project proposal and final report should include the following project planning tables and diagrams. The items shown here are examples only - while the form and style can differ, the tables and diagrams should clearly convey the information that they are intended for. Take care to make sure that the pixel quality of images and font is to a high standard.

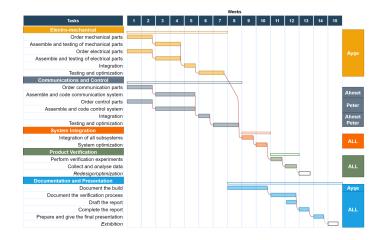
You can create high-quality flow charts, for example, at <a href="https://www.lucidchart.com/">https://www.lucidchart.com/</a>



Task	Ayşe	Ahmed	Peter
Mechanical	R		
Electrical	R		S
Comm.		R	S
Control		S	R
Planning	S	S	R
Reporting	R	S	S
Integration	S	R	S

R = Responsible; S = Support

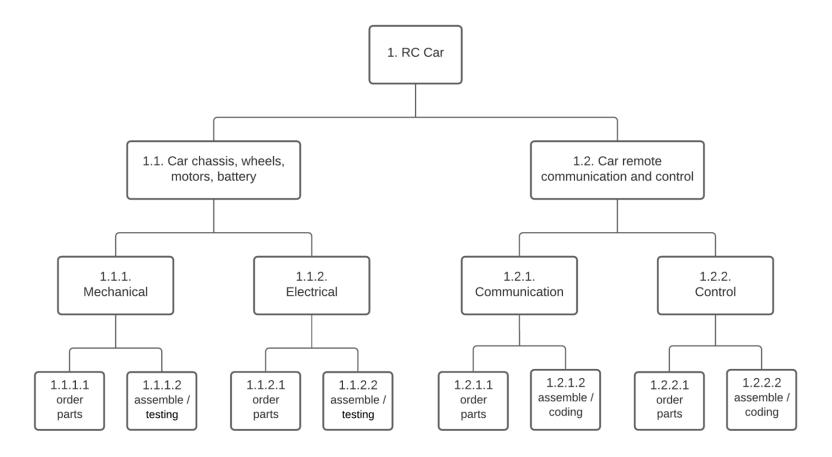






Failure event	Failure event Probability		Risk level	Plan of action
microprocessor failure	Unlikely This component is known to be reliable.	Major Would require replacing.	MEDIUM	Have a spare microprocessor at hand.
COVID-19 lockdown	Likely It seems likely that there will be at least limited access to school, and some team members might not want to travel.	Moderate This will make it more difficult to build and integrate subsystems.	HIGH	Redesign the sub-system communciation to work with Wifi, we can then integrate the subsystems over the internet if required. Make sure the team has the required kits to develop and build the sub-systems at home.
Not enough data to successfully train the A.I. system	Likely Preliminary studies indicate that we are going to need 100 times the data, we don't have time to collect that.	Major The required performance will not be reached.	VERY HIGH	The current A.I. design is too risky; replace with an alternative conceptual solution and reassess the risk.
3D-printing too expensive	Unlikely  Current estimates are well within the budget, but they may increase later.	Moderate We have a tight budget and cannot exceed it.		Consider alternative ways to manufacture the parts, draw up some basic plans and note sources of materials.

# Work Breakdown Structure (WBS)

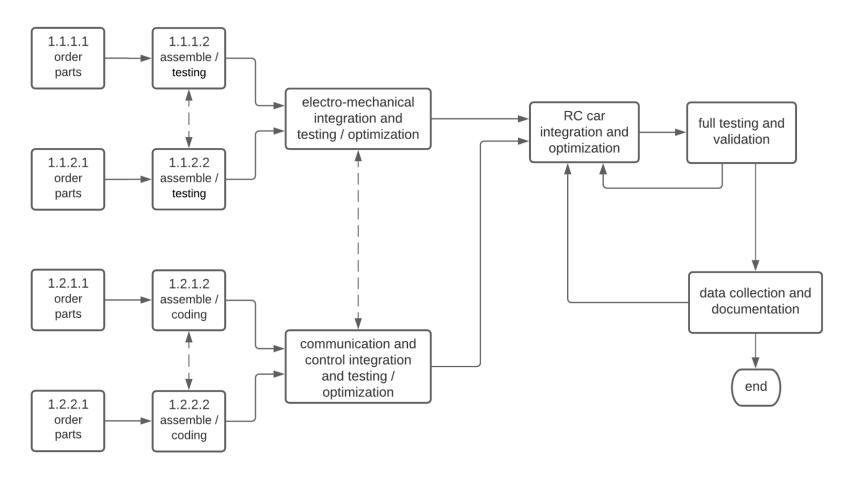


# The Responsibility Matrix (RM)

Task	Ayşe	Ahmed	Peter
Mechanical	R		
Electrical	R		S
Comm.		R	S
Control		S	R
Planning	S	S	R
Reporting	R	S	S
Integration	S	R	S

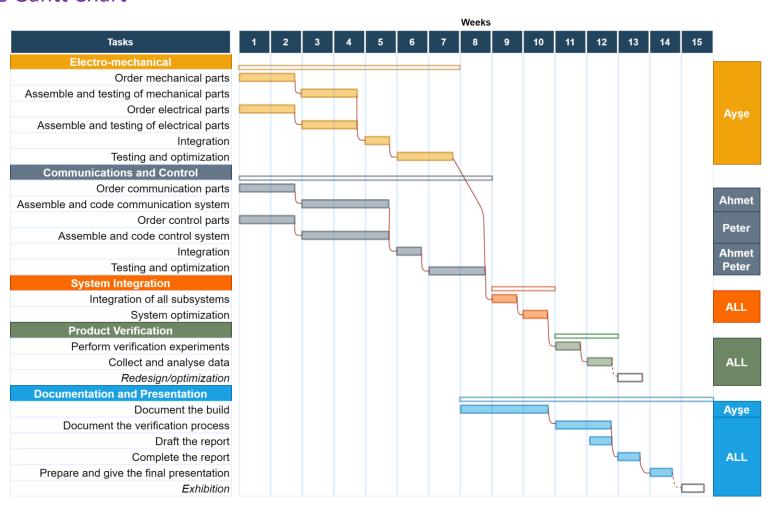
R = Responsible; S = Support

### The Project Network



### https://app.diagrams.net/

#### The Gantt Chart



#### The Risk Matrix

RISKLEVEL		<b>Severity</b> of the event on the project success			LOW	This event is very low risk and so does not require any plan fo mitigation. In the unlikely event that it does occur there will be only a minor effect on the project.		
		skler.	Minor	Moderate	Major	LOW	This event is low-risk; a preliminary study on a plan of action to recover from the event can be performed and noted.	
ility occuring	curing	Unlikely	VERY LOW	LOW	MEDIUM		This event presents a signficant risk; a plan of action to recover from it should be made and resources sourced in advance.	
obab	event	Possible	LOW	MEDIUM	HIGH		This event presents a very signficant risk. Consider changing the product design/project plan to reduce the risk; else a plan of action for recovery should be made and resources sourced in advance.	
<b>Pr</b> of the		Likely	MEDIUM	HIGH	VERY HIGH		This is an unacceptable risk. The product design/project plan must be changed to reduce the risk to an acceptable level.	

#### Risk Assessment Table

Failure event	Failure event Probability		Risk level	Plan of action
microprocessor failure	Unlikely This component is known to be reliable.	Major Would require replacing.	MEDIUM	Have a spare microprocessor at hand.
COVID-19 lockdown	Likely It seems likely that there will be at least limited access to school, and some team members might not want to travel.	Moderate This will make it more difficult to build and integrate subsystems.	HIGH	Redesign the sub-system communciation to work with Wifi, we can then integrate the subsystems over the internet if required. Make sure the team has the required kits to develop and build the sub-systems at home.
Not enough data to successfully train the A.I. system	cessfully train the Preliminary studies indicate that we are The required going to need 100 times the data, we performance will not be		VERY HIGH	The current A.I. design is too risky; replace with an alternative conceptual solution and reassess the risk.
3D-printing too expensive	Unlikely Current estimates are well within the budget, but they may increase later.	Moderate We have a tight budget and cannot exceed it.	1 ( )\//	Consider alternative ways to manufacture the parts, draw up some basic plans and note sources of materials.