



ECEN403
Senior Design Lab

EMERGENCY DRONE

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Outline

- ☐ Introduction
- ☐ Video
- ☐ Problem Statement
- ☐ Project Description
- ☐ Proposed Design
- ☐ Estimated Budget
- ☐ Project Timeline
- ☐ Website
- ☐ Questions and Discussions

Introduction



Video



Problem Statement

- ☐ Why do we need the emergency drone?
- ☐ Where would we use it?
- ☐ How would it benefit the country?



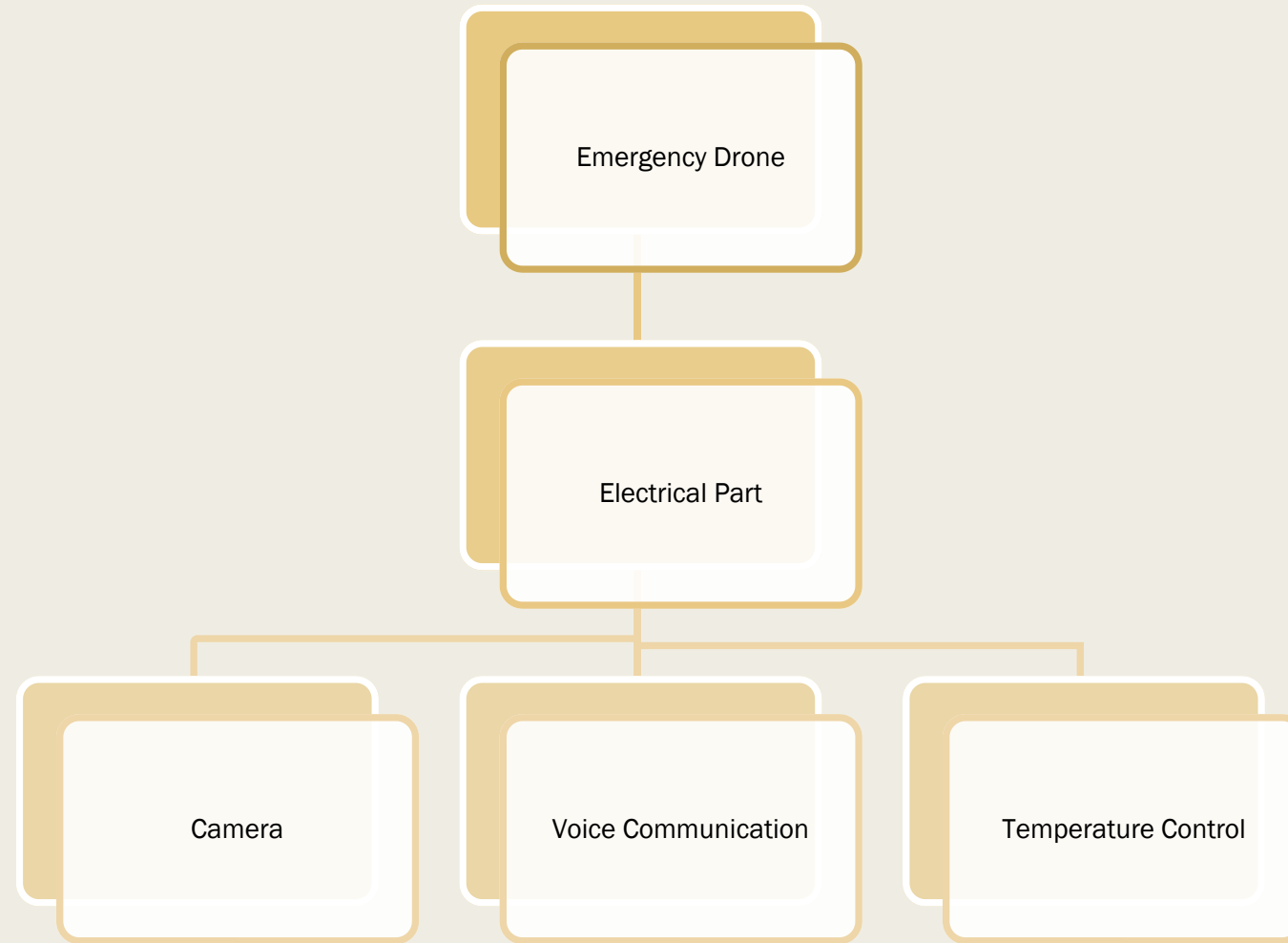
Project Description

➤ Electrical aspects:

- ☐ Advanced features and algorithm to have a safer drone.
- ☐ High radio frequencies.
- ☐ Bandwidth frequency.
- ☐ Information is operating over MAVLINK system.
- ☐ 3G network.



Proposed Design



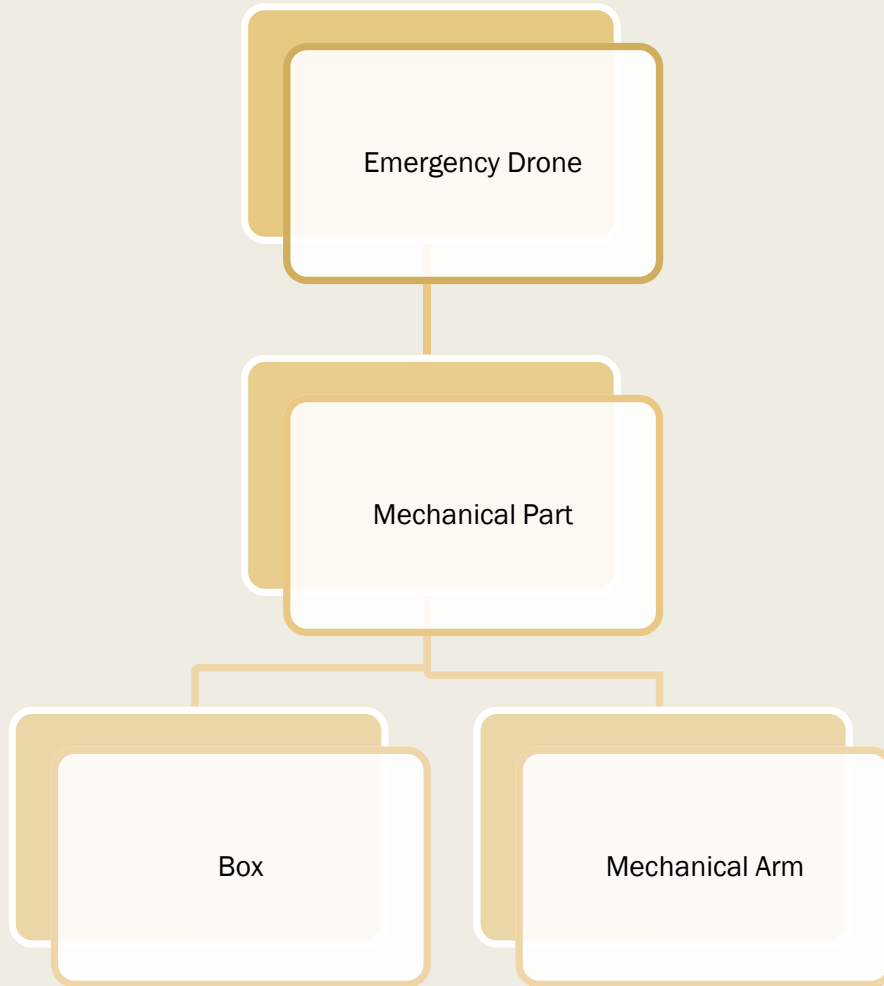
Project Description

➤ Mechanical aspects:

- ❑ Constructing a suitable storage unit.
- ❑ Devising a suitable pickup mechanism.
- ❑ Provide attachments that serve as interfaces for various electrical components.



Proposed Design



Estimated Budget

Item	Price	Quantity	Total
GoPro-Hero 6	U\$499.99	2	US\$999.98
Speakers	US\$50	2	US\$100
Mechanical arm	US\$200-US\$300	1	US\$200-US\$300
Box Material	US\$300-US\$500	1	US\$300- US\$500
Hala sim card	US\$45(per month)	1	US\$200- US\$400
Total Price			US\$2299.98

Project Timeline

Month	August		September				October					November				December	
Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Tasks																	
Project Proposal and Team Working Agreement																	
Submission of Project Proposal and Team Working Agreement																	
Project Proposal Presentation Preparation																	
Project Website Preparation																	
Customer Needs and Ethnographic Study																	
Benchmarking																	
Functional Modeling																	
Concept Generation																	
Progress Presentation Preparation																	
Final Presentation																	
Final Report																	

Planned	
In Progress	
Completed	

Website

<https://ecenmeen2018.wixsite.com/drone>



Questions

Thank you!