

Final Project Report

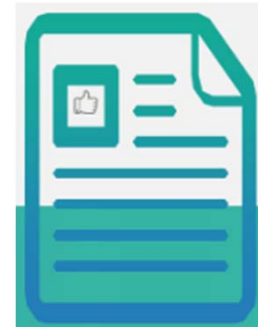
“The project final report is a single stand-alone document which Captured all key elements of background, approaches, analyses, experimentations, and conclusions for the project. The report length must fit with the complexity and duration of The project.”

Final Project Report

EECE404 Senior Design II

Electrical Engineering and
Computer Science

Howard University



Final Report - Contents

- **1. Cover Page :**
- **2. Summary (****) (or Abstract)**
- **3. Problem Statement**
- **4. Design Requirement**
- **5. Solution Design**
- **6. Agile Workflow and Weekly Plan**
- **7. Project Implementation Process (****)**
 - **Sprints & increments**
- **8. Conclusions**
- **9. References**



TABLE OF
CONTENTS

Final Report Format - Details

TABLE OF CONTENTS

NOTE:

- Write in full sentences.
- Do not bullet itemize

1. Cover Page

- Project Title, Project Team Members, Faculty Advisor, Date

2. Summary (or abstract) (****)

- 2 – 3 paragraphs of condensed description of the entire report

3. Problem Statement

- If there is any change, update it; otherwise, use last semester's work

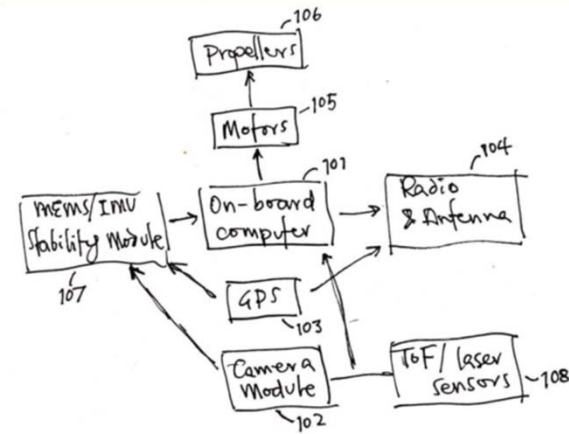
4. Design Requirement

- If there is any change, update it; otherwise, use last semester's work

Final Report Format

5. Solution Design

- If there is any change, update it; otherwise, use last semester's work. → **check my grading comments last semester**
- **If not in patent-like description**, then re-write it in the patent-like style.
- Otherwise, use the last semester's



The modern drone is a marvel of advanced technology and combines several essential components to achieve exceptional flight capabilities. Central to its design are four propellers (106) powered by electric motors (105), allowing agile flight. The battery powers the drone and charges it efficiently. The Flight LED is equipped with a laser (108) that harmlessly targets and tracks enemy Unmanned Ground Vehicles (UGVs) as identified by the camera (102). The high-resolution camera (102) captures photos and videos and is crucial for detecting and tracking UGVs. The drone is equipped with a stable landing gear (107) for safe landing and protection. The onboard computer [PCB] (101) processes the data and coordinates the flight. Ultrasonic ToF (108) and barometric pressure sensors ensure precise altitude control. The GPS (103) technology enables precise location tracking, while powerful electric motors (105) drive the propellers (106) to generate thrust.

Conclusion:

In summary, the multi-port waveguide with a Y-port c within waveguide structures. This design closely rese changes and providing a smoother signal transmissio the circuit, the compromise is outweighed by the ben signal loss.

- Need to focus on the Top solution only.
- Need a diagram with its elements marked with numbers.
- Need a description with those numbers.
- Need in all a patent style description.

Final Report Format

TABLE OF CONTENTS

6. Project Implementation

- Agile workflow
- Weekly implementation plan

7. Project Implementation Process(**)**

- Sprints & increments
 - Describe what you have done
 - Figures and Pictures
 - Flowcharts & Screen Shots

8. Conclusions

- Concise and condensed conclusions

9. References

Final Report - Submission

FINAL REPORT

DUE!



1. Style

- 1" margin in all sides
- Font size: 11

2. Submission

- Due: (T) April 23. 8:00pm
- Electronic submission via email

Grading Criteria – **Reminder**

- Ethics II – Resolving Ethical Dilemma (10)
- Socially Responsible Citizen Engineer (10)
- Team Assignments + Progress Presentations (40)
- Final Project Report (10)
- EECS Day Presentation/Demonstration (20)
- Team Participation (graded by team leader) (10)
- Attendance (Extra) (5)