

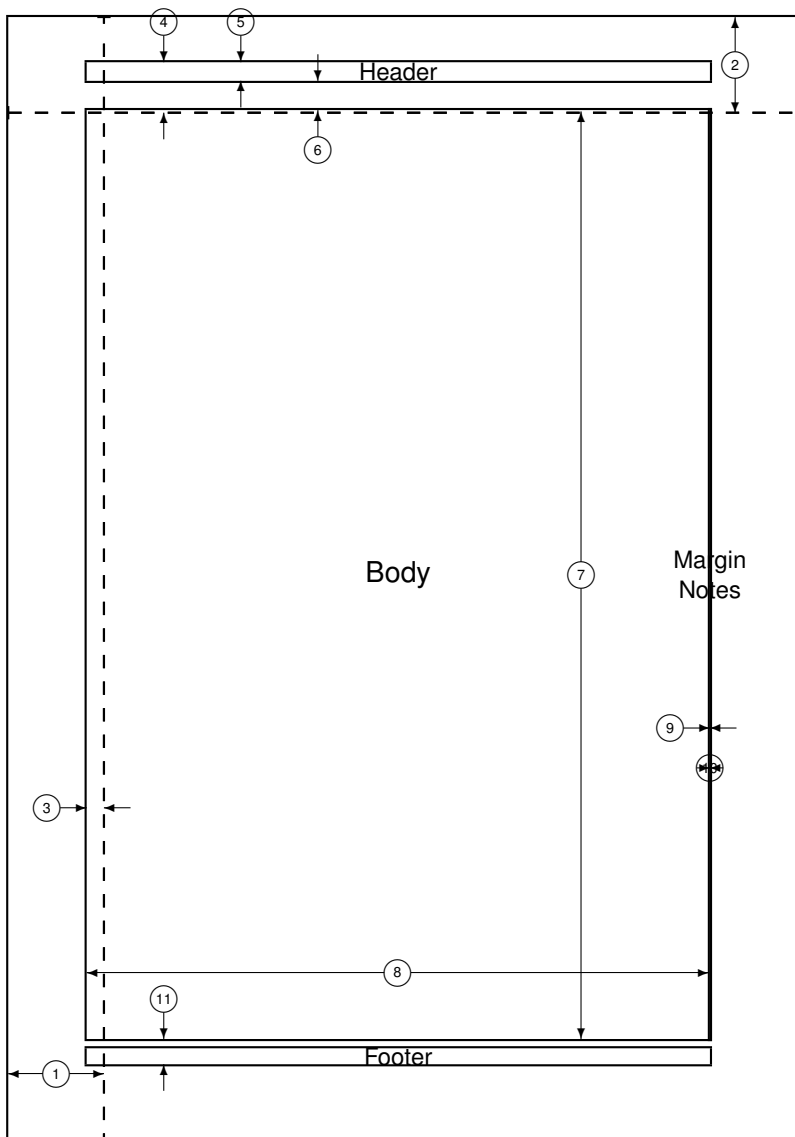


HONGUI

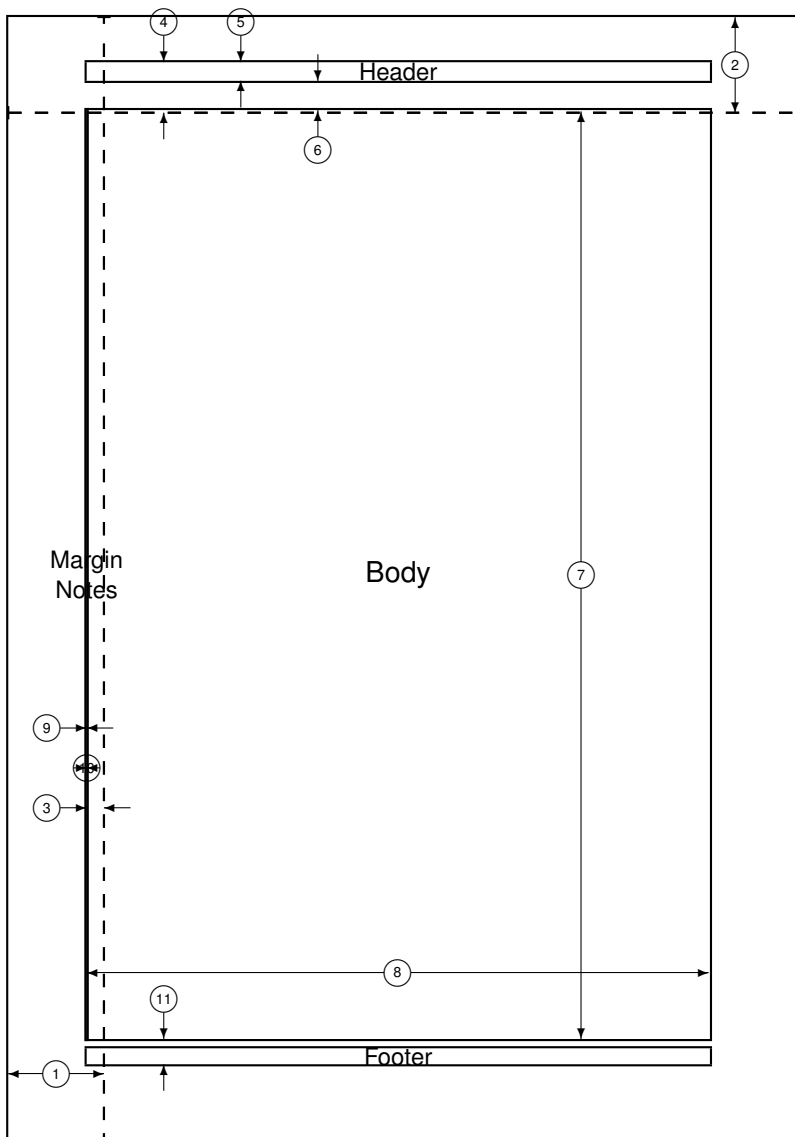
# MANUAL DE DISSENY I MUNTATGE D'UN QUADCOPTER







- |    |                        |    |                                  |
|----|------------------------|----|----------------------------------|
| 1  | one inch + \hoffset    | 2  | one inch + \voffset              |
| 3  | \oddsidemargin = -13pt | 4  | \topmargin = -38pt               |
| 5  | \headheight = 14pt     | 6  | \headsep = 22pt                  |
| 7  | \textheight = 699pt    | 8  | \textwidth = 469pt               |
| 9  | \marginparsep = 0pt    | 10 | \marginparwidth = 0pt            |
| 11 | \footskip = 19pt       |    | \marginparpush = 7pt (not shown) |
|    | \hoffset = 0pt         |    | \voffset = 0pt                   |
|    | \paperwidth = 597pt    |    | \paperheight = 845pt             |



- |    |                         |    |                                  |
|----|-------------------------|----|----------------------------------|
| 1  | one inch + \hoffset     | 2  | one inch + \voffset              |
| 3  | \evensidemargin = -13pt | 4  | \topmargin = -38pt               |
| 5  | \headheight = 14pt      | 6  | \headsep = 22pt                  |
| 7  | \textheight = 699pt     | 8  | \textwidth = 469pt               |
| 9  | \marginparsep = 0pt     | 10 | \marginparwidth = 0pt            |
| 11 | \footskip = 19pt        |    | \marginparpush = 7pt (not shown) |
|    | \hoffset = 0pt          |    | \voffset = 0pt                   |
|    | \paperwidth = 597pt     |    | \paperheight = 845pt             |

## **0.1 Some text here to see the typography**



# **CHAPTER 1. INTRODUCTION**

## **1.1 Motivation of the Project**





## **CHAPTER 2. MODELING MAGNETIC INDUCTION SYSTEM**



## **CHAPTER 3. ARCHITECTURE AND DESIGN OF THE WPT SYSTEM**



## CHAPTER 4. EXPERIMENTAL RESULTS



# CONCLUSIONS





# BIBLIOGRAPHY



# **CHAPTER 5. INDUCTANCE CHARACTERIZATION**

## **5.1 Inductance Estimation Table**

## **5.2 Equivalent coil impedance**



## CHAPTER 6. MODEL EQUATIONS

### 6.1 Secondary capacitor in series

### 6.2 Secondary capacitor in parallel

The same steps as above are followed for obtaining the impedances  $Z_2$  and  $Z_R$  when the secondary capacitor is placed in parallel:



# **CHAPTER 7. COILS EXPERIMENTAL RESULTS**

## **7.1 Inductance and Resistance**

## **7.2 Quality Factor**





# CHAPTER 8. CIRCUIT SCHEMATICS

## 8.1 Voltage Regulator