Chapter 1: Introduction to Quadcopters
Chapter 2: Hardware Overview
Chapter 3: Creating a Frame
Chapter 4: Soldering the Electronics
Chapter 6: Flight Controller Setup
<table>
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# Chapter 7: Flight Instructions

## APM-Copter Flight Ops Checklist

### Preflight

- **Groundstation**
  - Laptop
  - Laptop Battery
  - Mission Planner
  - Telemetry Module
  - Telemetry Module Antenna
  - Com Settings

- **Aircraft**
  - Airframe/Landing Gear
  - Props
  - Motors
  - ESCs
  - GPS Receiver & Cable
  - RC Rx & Connections
  - RC Satellite Rx and cable
  - Telemetry Module & Cable
  - APM
  - APM Connections
  - Battery
  - Velcro Battery Straps

### Flight

- **RC Tx**
  - Verify Throttle at Minimum
  - Power On
  - Verify Battery Voltage
  - Verify Correct Model Selected
  - Stabilize
  - Place at RTL Location
  - Connect (Don't move AV)
  - Connect with MP
  - Secure
  - Straight
  - >75%
  - Ensure correct response on AH
  - Verify 0 (±3)
  - Set
  - Verify 0 (±3)
  - Fully Charged
  - 3D Fix
  - Verify
Chapter 8: Cameras and Extra Functions
Chapter 9: Repair and Maintenance