

Consultant:  
UAV Tech  
117 S. State Street, Box 504  
Clarks Summit, PA 18411  
Ph:

DATE [Date]

TO  
Client:

FOR UAV Tuning

## COMPENSATION:

DESCRIPTION OF SERVICES	SERVICES	AMOUNT (in USD)	SERVICE SELECTED
Stability Tuning (main PID loop)			mark with "X"
Betaflight	BASE	\$250	
INAV	BASE	\$300	
ArduPilot	BASE	\$400	
Betaflight & INAV	BASE	\$450	
Autonomous Flight Tuning (INAV or ArduPilot) [Alt Hold, Pos Hold, RTH, etc...]			
INAV	ADD ALT	\$250	
ArduPilot	ADD ALT	\$350	
<b>TOTAL:</b>			

## ASSUMPTIONS:

- Pricing is for quads with prop diameters less than 10".
- UAV flight firmware is Betaflight, INAV, KISS, Fettec Alpha, or ArduPilot
- Flight controller supports blackbox logging
- Batteries shipped with UAV
- Control signal protocols utilized for UAV: Crossfire, ELRS, FrSky, FlySky, or Spectrum
- FPV video system protocols for UAV: Analog, DJI v1/v2, or Walksnail  
**(DJI V3 not support)**

## QUOTE

### UAV Tech - Professional Tuning Services

#### SCOPE OF SERVICES:

1. Pre-tuning UAV mechanical/electrical performance review
  - a. Receive UAV for tuning
  - b. Bind UAV to UAV Tech goggles and transmitter
  - c. Perform pre-flight ground check of UAV and firmware settings
  - d. Perform initial hover test/flight of UAV for mechanical/electrical performance
  - e. Provide a summary of the review and recommendations for any mechanical/electrical issues noted
    - i. If all is in order, move on to #2 below.
    - ii. If mechanical/electrical issues are discovered, will coordinate with Client for remedy before proceeding. Installation of components order by Client to repair may be at a negotiated additional fee depending on the level of effort necessary. This quote does not include purchase of parts to repair UAV mechanical/electrical issues.
2. Stability Tuning Services
  - a. Record flight performance of UAV on received settings
  - b. Tune UAV for peak flight performance. Tuning will be completed to produce the best possible flight performance only limited by the UAV's mechanical/electrical equipment.
  - c. UAV to be tuned on flight firmware of choice and version desired based on options selected. Version of choice assumes the latest firmware or no more than 3 releases old.
  - d. Stability Tuning Services do not include autonomous flight tuning (GPS-assisted flight modes) unless ADD ALT is selected to provide autonomous flight mode tuning.
3. Autonomous Flight Tuning (ADD ALT. if selected)
  - a. Record flight performance of UAV on received settings in autonomous flight modes
  - b. Tune UAV for stable flight in Autonomous modes, including:
    - i. Altitude Hold
    - ii. Position Hold
    - iii. Return to Home
  - c. Accuracy of GPS unit and barometer along with other factors will determine the accuracy of UAV autonomous modes flight. No guarantees are made to have camera drone-like accuracy of altitude hold or position hold. Camera drones use a variety of sensors to provide such accuracy.
4. Report Tuning Results
  - a. Provide HD and flight log performance reports on the before and after tuning flight performances
  - b. Report captured via. desktop analysis (recorded)
  - c. Report transmitted via. Email
  - d. After 75% payment is received, flight controller settings sent for testing on possible secondary UAV in Client's possession to confirm satisfaction with tuning.

QUOTE

UAV Tech - Professional Tuning Services

5. Returning of UAV

- a. UAV shipping cost will be determined **and added to the FINAL invoice**
- b. Upon receipt of payment for the FINAL invoice, UAV shipped to Client

**COMPLETION**

Work will be started immediately upon receipt of the signed quote. Task 1 will be completed within 7 to 10 days of receipt of the UAV. Tasks 2 through 5 can be accomplished within 1 week if a simple stability tune. If multiple firmware tunes with autonomous flight tuning may take up to 3 to 6 weeks from receipt of UAV depending on the options selected. Typically allot for 1 to 2 weeks per BASE and ADD ALT option selected. Upon completion of work, the UAV will be shipped within 3-days after the FINAL invoice is paid by the Client.

**AUTHORIZATION**

The above-listed Scope of Services was developed specifically with your project needs in mind. To indicate your acceptance of the Scope of Services, Compensation, General Terms & Conditions, and authorize the work to begin, please sign the authorization statement below, return one copy to my attention, and keep the other for your files.

If you have any questions concerning this quote, please feel free to contact me to discuss them in greater detail. I appreciate the opportunity to provide you with professional tuning services in this capacity and look forward to working with you on this project.

**SUBMITTED BY:**

Mark W. Spatz – UAV Tech

**ACCEPTED BY:**

<b>Name</b>	<b>Signature</b>	<b>Title</b>	<b>Date</b>
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Payments made to: <https://tiny.cc/uavtechpayment>  
If you have any questions concerning this quote, contact me.

LOOKING FORWARD TO WORKING WITH YOU!