

# ***Weekly Status Report 6***

## **Quadcopter Cameraman**

sdmay19-42

February 27- March 5

**Aamid Ahabab (Lead Engineer) & Client**

**Zhengdao Wang (Team Advisor)**

**Alex Nicklaus (Lead Test Engineer)**

**Isaac Holtkamp (Web Manager)**

**Nate Allen (Report Manager)**

**Luke Rohl (Meeting Facilitator)**

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## ***This week's accomplishments***

### ***Summary***

- Alex
  - Tested PWM pins on Pi
  - Tested complete hardware loop from pi to motor
  - Saw some success with communication but there are problems that need to be fixed
- Nate
  - Collected data to create a function for pixels to dimensions
  - Derived the function
  - Encoded an image into a string to send over socket in python
  - Wrote java to decode image string
  - Worked with Alex to try and figure out pwm with GPIO pins
  - Researched other software pwm libraries
- Luke
  - Complete multithreaded python socket server
  - Convert Multithreaded Queue into priority Queue
  - Integrated with Android App
  - Successfully integrated with BTC
- Isaac
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- Aamid

### ***Planned to accomplish next week***

- Nate
  - Receive commands from App for mask config
  - Send image over socket to app
- Luke

- o Figure out how to delimit separate messages when messages come in too fast
- o Integrate with CVC
- Alex
  - o Get signal to come out of the flight controller output pins
- Isaac
- Aamid

## Roadblocks

- Problem with number of GPIO pins on Pi we can only do PWM using a software implementation which we are still attempting to integrate
- Problem with getting motors to spin up on tests despite supplying what we believed to be the correct signals to the flight controller
  - o We saw some minor responses but it was a minor success if a success at all

## Hours Spend

Team member	Hours This Week	Hours Total
Nate Allen	4	33
Alex Nicklaus	6	37
Luke Rohl	11	37
Mir Ahbab		
Isaac	6	28