

EE CprE SE 492 - MAY15-28  
MicroCART Senior Design Team

Meeting Minutes - Week 14

April 20, 2015

**Attendance:**

**Team Members:**

Adam Campbell  
Matt Post  
Joe Benedict  
Ravi Nagaraju  
Tyler Kurtz

**Advisors:**

Dr. Phillip Jones  
Paul Uhing

**Agenda Items and Discussion**

- 1) Project poster
  - Only one item needed to be changed. Increase margin in the text boxes
- 2) Reduce damage during flight crashed
  - Shut down motors during impending crash to slow/stop the props
  - Add padded feet to reduce the shock during hard landings
- 3) Camera data
  - Able to send yaw values via Bluetooth from base station to quad
  - Next steps:
    - Implement camera's yaw value in the on-board mixer
    - Test on 3-axis stand
    - Test during manual flight
- 4) PID tuning
  - Ready to add yaw value from camera system
  - Ready to add gimbal matrix
- 5) Zybo battery regulator
  - Waiting for PCB boards to be delivered

- 6) Website needs final touches
  - Joe, Matt V and Jacob will meet to discuss changes
- 7) GUI
  - Will use the streamlined version from last year's team
  - Need to integrate X,Y and Z positional data from the camera system to implement automatic flight
- 8) Need to create documentation for reaming props to fit motor shaft
- 9) YouTube video channel
  - The drive has a play list folder
  - Videos need descriptions