## **Quadcopter Project Improvements and Goals**

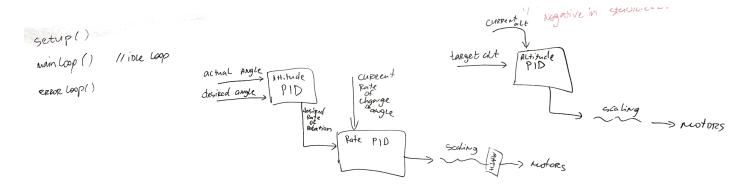
- A maximum of 30 minutes will be spent on coding puzzles each meeting.
- Rotate puzzles and send email with instructions before every meeting to save time.
- Ilya will also take up responsibility for every other task so he can motivate other team members.
- Attendance and commitment is important. Let Ilya know if you can't make it.
- Show up on time.
- Tutorials will be related to the project. If they are not, team members will vote on whether they want to learn that certain topic or not.
- Tutorials should be documented.
- Interview preparation will be in place of the coding puzzles occasionally.
- It would be nice to have a documented GitHub tutorial.
- Quadcopter tutorial should include specs (how much it can carry, battery life, forum research), software only if necessary, and what we can do.
- Goals for this semester:
  - Stable hovering
  - o Determine if we need a camera
  - Testing
  - Manipulating inputs/outputs
  - Be better at programming and disassembling code, gain better understanding of software

## **Coding Puzzle**

WAP to swap two data values without using a temporary variable.

#### Program:

# **Notes**



## **Tasks**

- Find out why eulerYawDesired is negative in stabilizer.c (Mason and Diva)
- Research on basic concepts of quad before quad tutorial (Everyone)
- Logging (Pat and Mason)
  - o Find a good way to log yaw, pitch, roll (desired)
- Find more ways to capture desired pitch/yaw/roll (Pat and Diva)
  - o Research on the web
  - Search for something like "autonomous hovering algorithms"
- Figure out how to determine if the quad is stable. (Everyone)