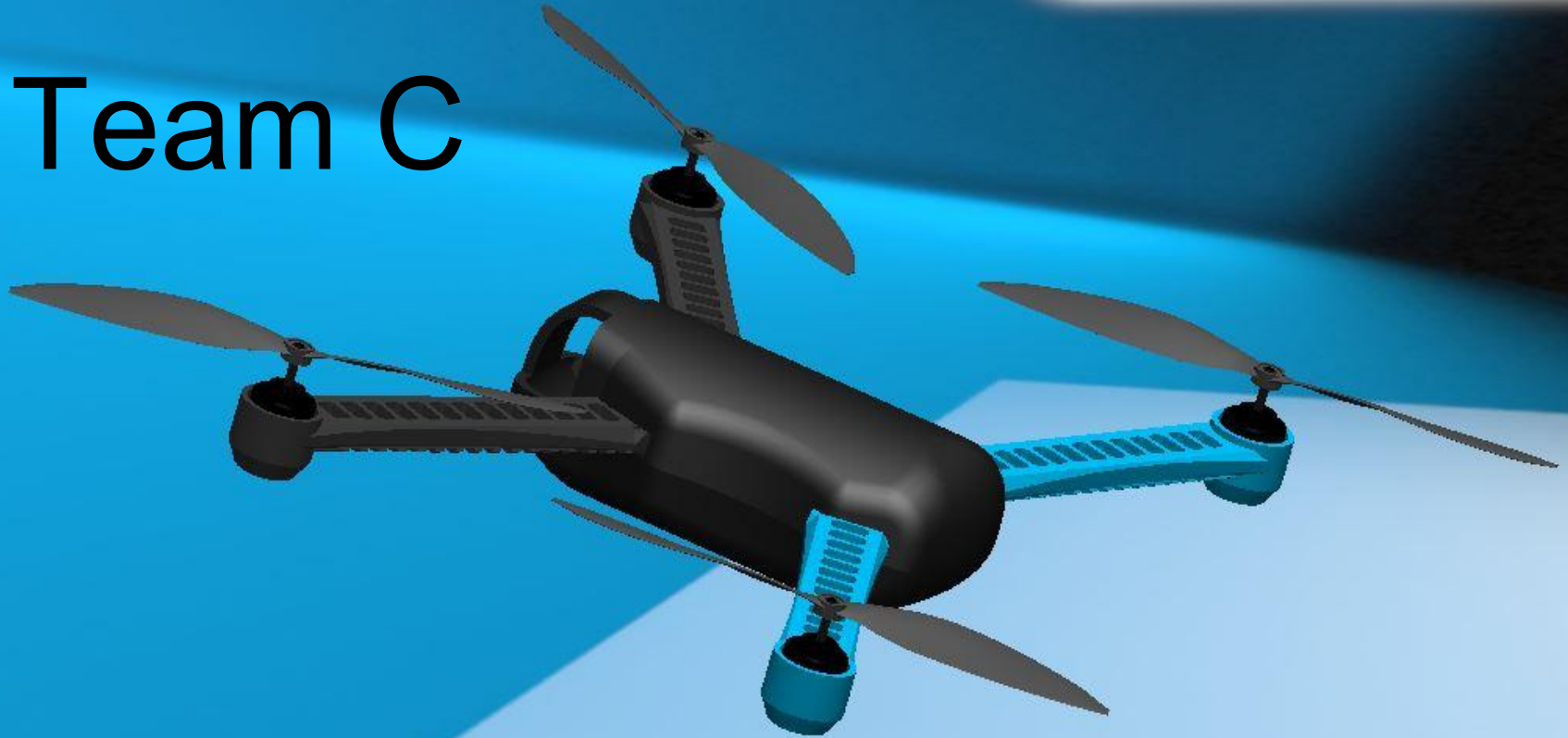


# Team C



Progress Review 4

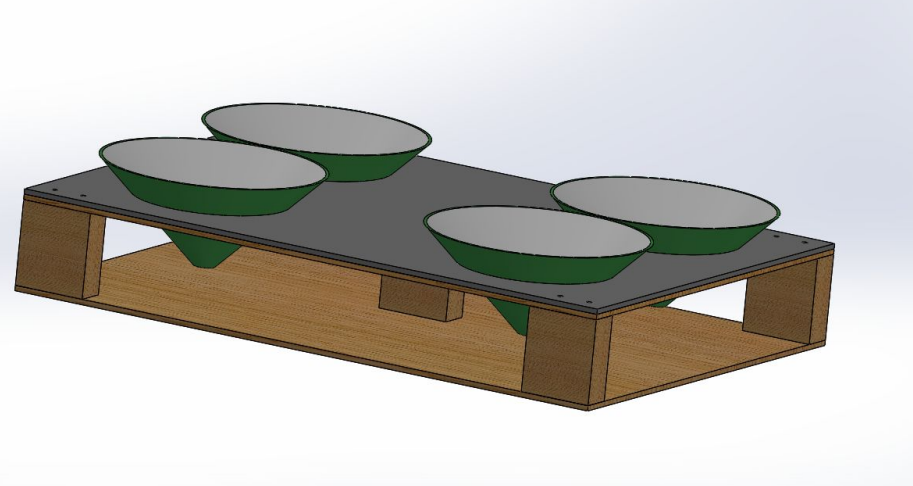
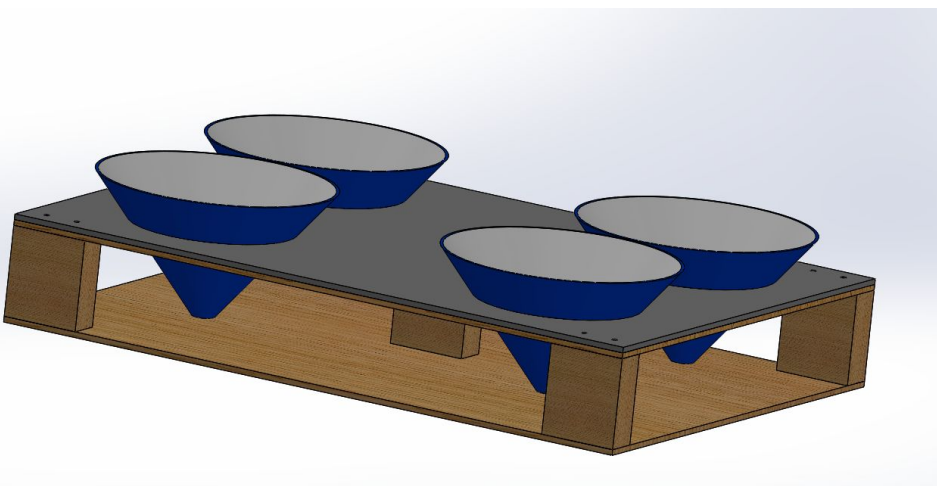
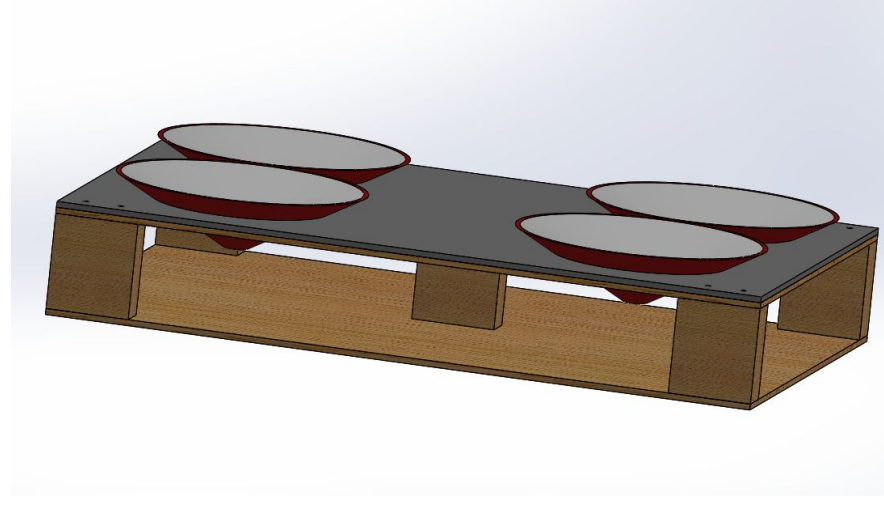
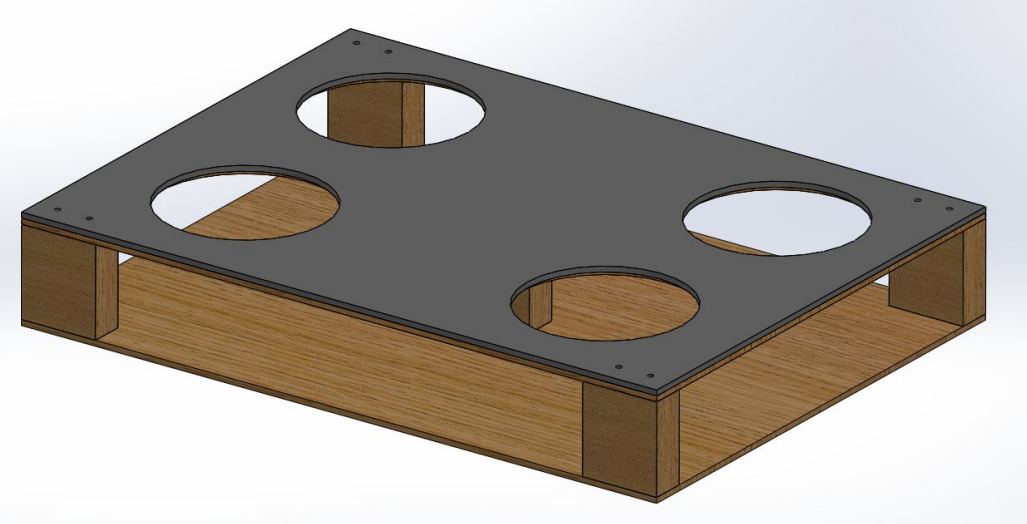


# FVE

- Open-loop ARDrone Control: Demonstrate takeoff, move, land at push of ROS button
- Hardware and ROS Setup on Iris+
- Prototype of dock: Demonstrate one proof of concept, one actual prototype

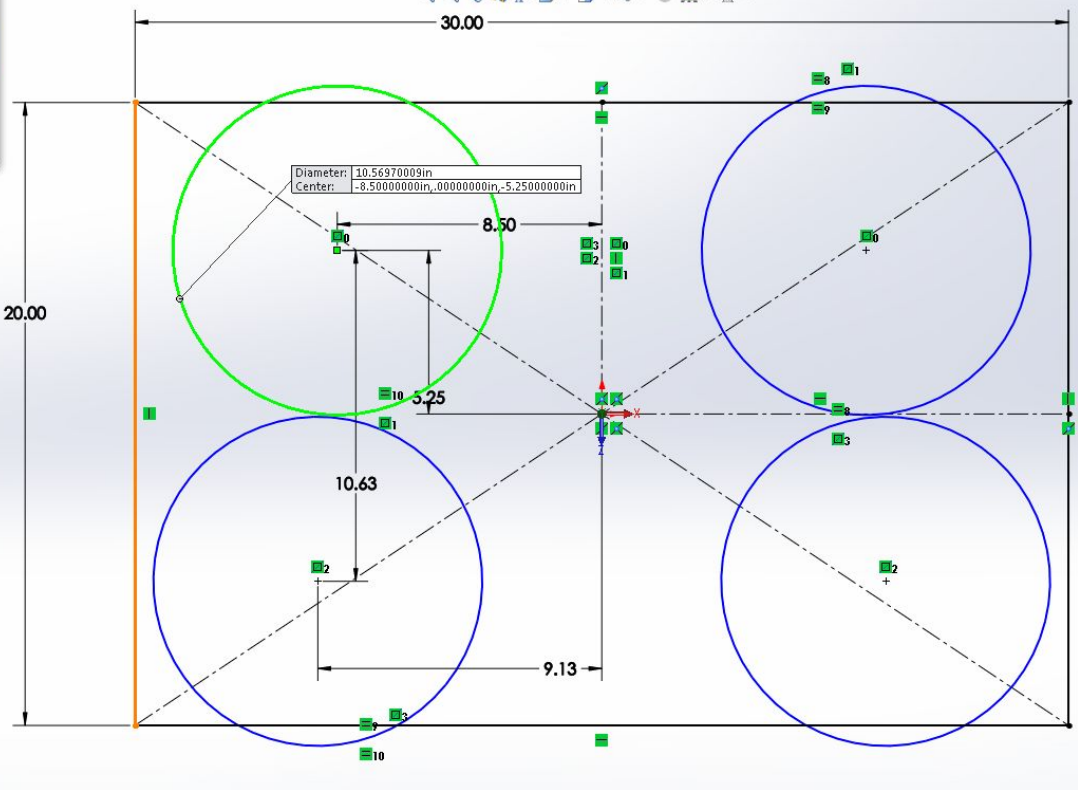
# PROGRESS

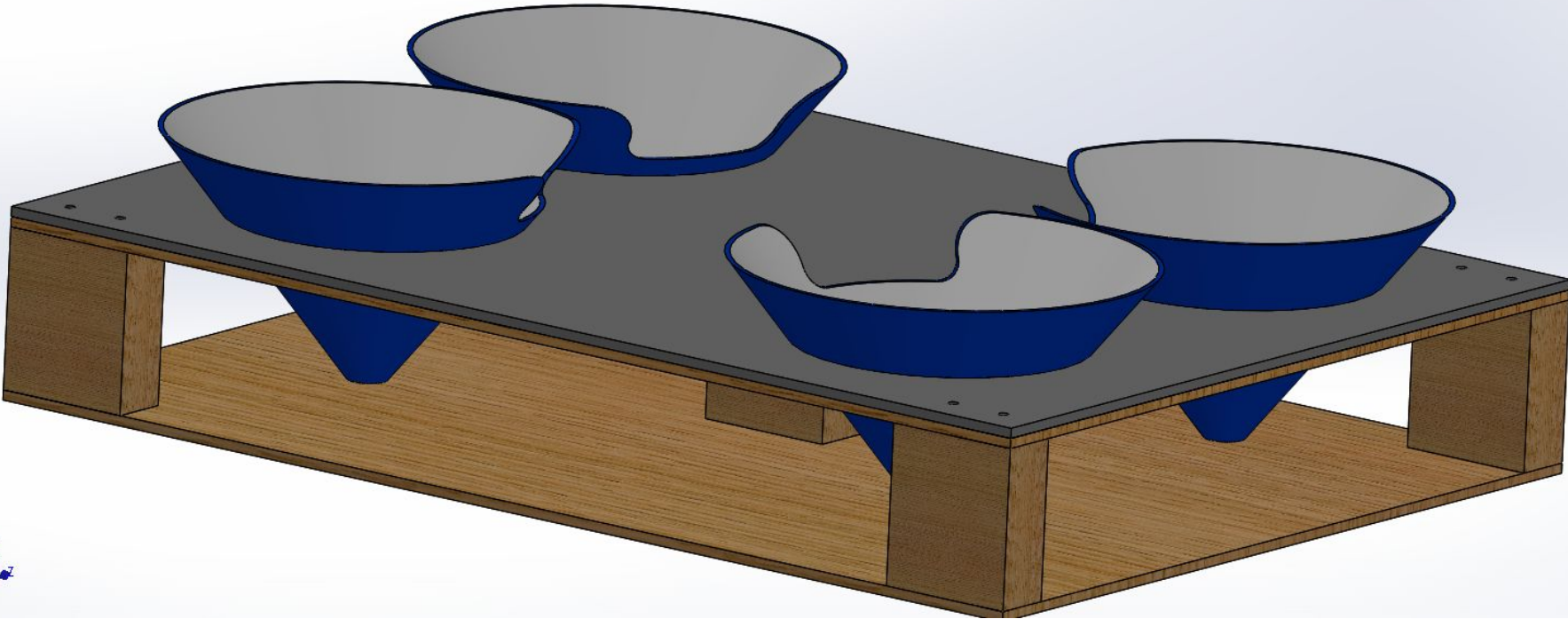
- Initial fabrication of dock
- Dock Team Brainstorms and directions
- First Prototype CAD



# Details on dock Design Choices

- Cone opening Area as wide as possible
- First prototype is adjustable to mechanically test different cone slopes
- Cones are easily manufacturable and adjustable. rolled cones from thin abs or neoprene sheets that are laser-cut in house to desired shape.
- No servo actuation. Now using NicaDrone electro permanent magnet to secure drone in 5 DOF. (NicaDrone magnets will arrive spring semester)
- Parts for this first iteration have been bought. And fabrication and testing will begin early next week.





# PROGRESS

- Power Distribution Board (parts ordered)
- CAD design and layout for Iris+ hardware mounting.
- Extensive testing of AR.Drone TUM AR.Drone package



# FUTURE WORK

- Final Testing on ARDrone
- Fabrication of First Dock Prototype
- Fabrication Mountings for ARDrone
- Sensors and wireless communication to Iris+