AUV Meeting Minutes

November 8, 2023

* Waterproofing methods:
  + apply balloon/latex material.
  + coat water sealant to prevent resin breaking down by water
    - Sealant does not degrade in water
    - Sealant designed for plastic surfaces
* Final project deliverables:
  + Control system
  + Ballast/neutral buoyancy
  + Complete waterproofness
    - Goal: have 0 water infiltration after being submerged for 1 hour (Previous team had spoonful of water infiltration after 45 minutes - goal is to improve that)
  + Other goals: add accessories
    - Attach camera – Possibly a GoPro
    - Attack lamps
      * can be purchased from Blue Robotics (website shows important specifications including length and weight)
      * Mounting methods:
        + Fasteners
        + Contact cement
    - Payment: Talk to Dr. Kaipa about getting funding either from
      * Project budget (if we have access to it in time) or
      * Dr. Kaipa’s discretionary fund
* Discussion of swimming pools that could potentially be used to test AUV:
  + Dr. Kaipa’s pool
  + ODU pool - $100/hr
  + City of Norfolk pools
    - May be cheaper than ODU pool rate
    - Nick will email them for information
  + If we get control system completed – test in Dr. Kaipa’s lake