

Email Message

Goodmorning everyone,

This week our team continued to make progress based on our V&V feedback. I am in the process of locking down validation strategies for our device, however I have yet to find any strong leads. Kyle has maintained the circuitry of the motor for the syringe pump, verifying that our new, preferred actuator works with the syringe. We will address the concern of the actuator's connection with the syringe likely by 3D printing a platform for them to rest with a mechanism to hold them together. Additionally, we have verified that our linear actuator only needs a single 9V battery to function properly rather than a 12V battery. Taylor has been working with our balloon plastic material, verifying that heat treatment shrinks the plastic to be fit around a mold. We are currently designing the mold on CAD and look to 3D print it as soon as we can.

Thanks and have a great weekend!

Best,
Brian Dallesasse, Kyle Sachdev, Taylor Hughes

Project created on 06.09.2016 02:03.

Report for project Senior Design

Task created on 31.03.2017 13:15.

General Update, Post V&V

No due date

Due to conflicting busy schedules, the team was unable to meet in person this week. We look forward to get back on track next week to catch up.

Task tags: *No tags*

* General Team Update, Week of March 27th, 2017

Created by Brian on 31.03.2017 13:25.

Linear Actuator --Functioning well with arduino & syringe pump set up

--only power source necessary is a single 9V battery

--Feedback from V&V presentation: How will actuator remain lined up with syringe, if clipped onto body somewhere?

--Idea: Attach to small 3D printed platform; design mechanism or use glue to keep them in place

Device validation

--Brian researching possible sub glottic 3D models - currently no leads

Balloon Material

--Taylor has done general heat treatment to verify the plastic shrinks and therefore able to be fit around a mold

 Comments for result General Team Update, Week of March 27th, 2017

No comments

Activity of task General Update, Post V&V

31.03.2017 13:15 *Brian* created task **General Update, Post V&V**.

31.03.2017 13:16 *Brian* changed task **General Update, Post V&V**'s description.

31.03.2017 13:16 *Brian* changed task **General Update, Post V&V**'s description.

31.03.2017 13:25 *Brian* added text result **General Team Update, Week of March 27th, 2017**.