**13. Sustainability (Budget-excel sheet)/Fundraising/Outreach/Website/Sponsorship Outreach Experiences**

**Include concise table of summarize experiences and lessons learned from outreach with concise tables of outcomes.**

*Our team members did multiple fundraisers and are going to do more soon. One fundraiser was selling chocolates, which made $72. Another was selling brownies which made $46. We also did two outreach events. At the first one we* *presented to an FRC team about how our robot works and the different mechanisms on our robot, about our team members, and what the FTC Challenge is, and they gave us advice on what we can make better on our robot. At the second event we went to the FLL East Qualifiers, and we talked about FTC, we showed how our robot works, and we talked about how the different mechanisms on our robot work. Our team got one sponsorship from IBM for $650 towards purchases on the FIRST website. Our team also has a website and a YouTube channel. The link for the website is:* [*https://sites.google.com/view/robophantoms/home?authuser=0*](https://sites.google.com/view/robophantoms/home?authuser=0)

*The link for the YouTube channel is:* [*https://www.youtube.com/@user-jq7jn5wu3b*](https://www.youtube.com/@user-jq7jn5wu3b)

*On our YouTube channel is our drone launcher, our league meets, and an outreach event we did. We plan to add more to our channel as we do more as a team.*

**14. Mentorship and Knowledge Acquisition Strategies**

**Summarize how the team acquired new mentors and/or acquired new knowledge and expertise from their mentors.**

*Our FTC team mentor is the dad of one of our team members. We acquired new knowledge and expertise from our mentor whenever we needed help to figure something out or when there were better solutions to the problems we were facing. We also met with the Robo-Sapiens team who taught us about different mechanisms we could use including spinning surgical tubing as an intake method. Our team learned lots of different things like how different mechanisms work, how to CAD different parts to 3d print, and how to use Java to code the autonomous part of our robot.*

**15. Future Work**

**Add future enhancements that can be made to the project here.**

*Some future enhancements that can be made are changing our outtake mechanism so we can go higher on the backdrop, object detection for dropping a pixel during autonomous, utilizing April Tags to drop pixel on the backdrop during autonomous, using RoadRunner for robot motion planning, using pure pursuit library to drive robot more accurately, and using a camera to get precise pixel location.*

**16. Team Plan**

**Write about team’s goals for the development of team member skills, and the steps the team has or will take to reach those goals. Other examples of what the plan could include are timelines, outreach to science, engineering, and math communities, and training courses.**

**Other examples of what the plan could include are Team identity, fund-raising goals, sustainability goals, timelines, outreach to non-technical groups, finances, and community service goals. The Team is an ambassador for FIRST programs. So, write down your plan to reflect that.**

*Our team’s goals are to work on our teamwork skills by working together to solve problems and discussing our ideas to find solutions. We also want to improve our technical skills by learning and applying what we learned into building our robot. We would like to learn more and more in the future including even more different mechanisms. Our fundraising goal is to raise at least $250, or $50 per person. So far, we have raised around $120. Another goal is to have females join our team to make it more diverse and inclusive. Our team would also like to do more outreach events so we can teach more people about FTC and have new members join our team. During the summer Srilakshminath taught kids about FLL and also taught them different mechanisms used in FLL, how they work, and about coding used in FLL. We would like to have kids do more of these free summer camps so they can join FLL and later join FTC. We also want to promote FIRST and STEM among underprivileged groups by mentoring them. In the future we would like to do some training courses including advanced java courses and robot path planning courses.*