

Impact Award Ideas

Executive Summaries

1. Describe the impact of the *FIRST* program on team participants within the last 3 years. This can include but is not limited to percentages of those graduating high school, attending college, in STEM careers, and in *FIRST* programs as mentors/sponsors.
 - a. Talk about graduation rates, rates of those going into the STEM field/already in STEM fields, talk about alumni who came back to help assist off season competition
 - b. 100% graduation rate
 - c. Figure out percent gone into stem field
 - d. Talk about awards at award ceremony you can receive

5740 has a 100% college acceptance rate from our graduating students. Out of 11 of our seniors, 10 plan on pursuing a STEM major or going into a technical field after high school, & have earned _ in scholarships. 5 5740 members have been awarded as Dean's List Finalist with 1 winner. Many alumni have returned to help with outreach initiatives & events, including toy adaptation & our offseason event NC/RC. We celebrate alumni with posts of their accomplishments on our social media & website.

2. Describe your community along with how your team addresses its unique opportunities and circumstances.
 - a. Christmas Troy Hill, Isaiah 1:17, Summer at North, Open Houses?
 - b. Alumni network - connects us to sponsors and such

As a Catholic school, we have a unique opportunity to align our team's values with our school's & *FIRST*'s. The school offers various occasions to get in touch with our community, like Open Houses, Scarlet & Gold Day, Christmas on Troy Hill, & Summer at North Camps. All allow us to inspire young kids towards STEM experiences & act as a pipeline for new team members. Our school also offers us alumni connections with companies that further our initiatives through facility tours & sponsorships.

3. Describe the team's methods, with emphasis on the past 3 years, for spreading the *FIRST* message in ways that are effective, scalable, sustainable, and creative. How does your team measure results?
 - a. Talk about summer camps and how many people we reach, COTH, gives numbers of camps, mention our social media and our following/viewing
 - b. Talk about senior's first here instead of above
 - c. Spreading by presence vs action - Action: Toy Adaptations, TRETTC, FRC Boot Camp, FTC, NCRC, FTC Launch

5740 uses our network of families & community partners to form our outreach events. Via a team mom, we partnered with the Children's Home of Pittsburgh for our Toy Adaptation program. Raising over \$3,500, our team bought, modified & donated 7 toys last December & 28 toys over the past 3 years for medically fragile children. We replicate this model in all community outreach events, like Mars New Year & the Cranberry Maker Faire, where we have been asked to return multiple times by the organizers.

4. Please provide specific examples of how your team members act as role models within the *FIRST* community with emphasis on the past 3 years.
 - a. ROLE MODELS: FTC mentorship, starting fl, tretc
 - b. Need FLL team before we can talk about this
 - c. Posting about our outreach and initiatives on social media
 - d. Startup of FLL in St James and then start up efforts in St Kilians
 - e. PRN
 - f. Inreach
 - g. Summer Camps
 - h. FRC Boot Camp

We act as role models through our FTC mentorship. FRC members act as student mentors to the team, some helping after school & some helping in the class during the day. We also post about our outreach initiatives on social media too. At the Three Rivers Educational Technology Conference, we have presented for the past three years as we seek to advocate for *FIRST* in classrooms, including our own school.

5. Describe your team's initiatives to Assist, Mentor, and/or Start other *FIRST* teams with emphasis on activities within the past 3 years.
 - a. FTC FLL
 - b. FTC kickoff (assisted other teams by hosting it and having field set up)
 - c. FLL at camps
 - d. FTC and FLL camps two years ago (switched to FLL)
 - e. Started: FLL at St. James (ask about registration), FLL at SK (register)
 - f. Mentored: aiming for with FLL, may not get done this year; FTC
 - g. Assist: FTC; FLL at SK; FLL at St. James (send Lego SPIKE)

Our team currently mentors our FTC team 12578 & it operates as a class through our school. We also assisted other Pennsylvania FTC teams by hosting this season's FTC kickoff. Part of our initiative to start FLL teams started with our FLL summer camp. We got interest from students from various schools in the area to start teams through their school.

6. Beyond starting teams, what initiatives have you done to help inspire young people to be science and technology leaders and innovators? What results have you seen from your efforts in the past 3 years?
 - a. Camps; think of another idea of how to have younger stem leadership
 - b. Girl scouts
 - c. Montessori
 - d. PRN company? Hopefully start up something with this

Team 5740 annually runs at least two STEM summer camps where elementary/middle school students learn CAD, software, media & build skills. At the end of the week, students compete w/ robots they worked on throughout the week. We have taught 300+ students, many who have gone on to join

Team 5740, our FTC team 12578, and showed interest in being on FLL teams. We also hosted a robotics day at Montessori preschool to inspire young kid's interest in STEM.

7. Describe the partnerships you've created with other organizations (teams, sponsors, educational institutions, philanthropic entities, etc.) and what you have accomplished together with emphasis on the past 3 years.
 - a. NC/RC with Armstrong
 - b. TRETc - Quasics
 - c. Mars - Mars New Years, FTC kickoff

This past season, we assisted the Mars team with setting up Mars New Year, a community event held every other year. The team later assisted us with hosting the FTC kickoff at our school for various other PA teams. We also partnered with one of our top sponsors, Armstrong, to host NC/RC, an offseason we ran this year. Our team & the company are already in the works of scheduling the event for next year after its success, & we have kept consistent contact to discuss our partnership going forward.

8. Describe your team's efforts in the past 3 years to promote equity, diversity, and inclusion within your team, *FIRST*, and your communities.
 - a. St. Anthony's program, women in stem (me and bridget as leaders this year, katie, ellie, and lauren as leads)
 - b. FIRST Ladies
 - c. Girl Scouts
 - d. CapSen - girls field trip
 - e. POC
 - f. An open environment for those with neurodiversity outside of the St. Anthony's program
 - g. Toy Adaptations

In the past 3 years, we have had multiple kids from the St. Anthony's program participate on both our FTC and FRC teams. We also promote women in STEM through our leadership. Over the past three years, we had 6 of our 10 subteam leaders who were women, as were two of our Dean's List Finalists. We also promote STEM to younger women in hopes to inspire them. One such event we do this through is our Girl Scout's outreach, where we help them earn their robotics badge.

9. Explain how you ensure your team and the initiatives you have created will continue to run effectively for the foreseeable future.
 - a. Inreach training, allowing new members to take lead in different outreach events
 - b. Pipeline of fl and ftc

We ensure our team will continue to run effectively through our Inreach training. Over the summer and up until Christmas break, we hold code and CAD sessions weekly to build the skills of new team members. We also encourage students to be leads of both team and outreach initiatives. Additionally, we inspire kids to take up these initiatives through our FTC pipeline. This connects students through the school course to our team, so they have knowledge of our activities coming into it.

10. Describe your team's innovative strategies to recruit, retain, and engage your sponsors within the past 3 years.

- a. Invites to end of the year banquet, held a successful offseason competition that we plan to run again, reach out to local groups
- b. PRN Discovery Day to find potential sponsor connections
- c. Documented list of sponsors we reach out to

We invite our sponsors to our end of the year banquet where we celebrate the successes of our season. We also engage with our sponsors by doing facility tours or hosting events with them. Additionally, we have a documented list of all sponsors we would like to reach out to and have various students send out emails to these local companies. One specific way we find sponsors to contact is through personal connections.

11. Highlight one area in which your team needs to improve and describe the steps actively being taken to make those improvements.
 - a. HANDBOOK- re-organize team according to a handbook, better defining processes of leaderships, initiatives, etc; defining leads and expectations for this
 - b. Need to improve in our communication and commitment
 - c. Weekly LT meetings

Over the past year, 5740 has sought to reorganize itself to better define its methodology and leadership structure to better serve our team. To this end, we wrote a team handbook to outline our leadership structure, expectations, sub-teams, and initiatives & initiatives. The handbook also outlines our values, these being commitment, teamwork, celebrating success. These are all for the purpose of improving communication on the team

12. Describe your team's goals to fulfill the mission of *FIRST* and the progress you have made towards those goals.
 - a. Mission and vision statement
 - b. First mission inspired our own
 - c. We are not just about building the robot; we focus on community outreach, family connections to the team, the growth of our students into leaders, etc
 - d. "The 5740 Way"

FIRST's mission has inspired our own: "Building students of creativity, leadership, and professionalism - connecting them to a future enlightened by their STEM experiences." We emphasize that we are not just about building a robot, but we also work towards community outreach, family connections, and growth of our students.

13. Briefly describe other matters of interest to the *FIRST* Judges, including items that may not fit into the above topics. The judges are interested in learning about aspects of your team that may be unique or particularly noteworthy.
 - a. Project management/microsoft planner

One of our team mentors teaches members the importance of project management and its applications. We focus on learning about emotional intelligence and how it can benefit leadership, relationships, and personal feelings on a team. To help oversee our team and apply management aspects outside of our Leadership Team, we use Microsoft Planner to keep track of and assign various tasks.

Impact Award Ideas 500 CHRT limit

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5740 has a 100% college acceptance rate from our graduating students. Out of our 11 seniors, 10 plan on pursuing a STEM major/going into a technical field after high school & have earned 1.7+ million in scholarships. Five 5740 members have been awarded Dean's List Finalist w/ 1 winner. Many alumni have returned to help with outreach initiatives & events, including Toy Adaptation & our offseason event NC/RC. We celebrate alumni w/ posts of their accomplishments on our social media & website.

FINISHED!

2. Describe your community along with how your team addresses its unique opportunities and circumstances.
 - a. Christmas Troy Hill, Isaiah 1:17, Summer at North, Open Houses?
 - b. Alumni network - connects us to sponsors and such

As a Catholic school, we have a unique opportunity to align our team's, school's, and *FIRST*'s values. The school offers various occasions to get in touch with our community, like Open Houses, Scarlet & Gold Day, Christmas on Troy Hill, & Summer at North Camps. Further, we financially supported the Isaiah 1:17 House, an organization that helps foster children. Our school and alumni network allow for these opportunities to inspire our community through our works.

FINISHED!

3. Describe the team's methods, with emphasis on the past 3 years, for spreading the *FIRST* message in ways that are effective, scalable, sustainable, and creative. How does your team measure results?
 - a. Talk about summer camps and how many people we reach, COTH, gives numbers of camps, mention our social media and our following/viewing

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5740 has developed a methodology known as "The 5740 Way" to successfully spread our vision. Through professional events such as TRETc & PRN Discovery Day, where we network and represent FIRST's message to companies & educators, we prioritize the enrichment of STEM experiences through our team members and community to engage as Christ-like individuals. We measure results with our successes & failures as individuals & as a team through feedback and self-evaluation at the end of an outreach.

FINISHED!

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 - e. PRN
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 - g. Summer Camps

Our team acts as role models through our mentorship, event hosting, and social media impact. Team members actively mentor our FTC team both in class and after school and are working to start FLL teams to provide mentorship for. We also host various *FIRST* events that allow us to be a model for teams, such as NC/RC, FTC Qualifier, & FTC Kickoff. With our social media impact, we have reached over 6.1k accounts in the past month alone.

FINISHED!

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5740 has mentored our FTC team 12578 since 2019 & it operates as a class through our school. We also assisted other PA FTC teams by hosting the FTC Kickoff for 2024 & FTC Qualifier for 2023. Part of our initiative to start FLL teams started w/ our FLL summer camp. We were able to successfully assist in

starting an FLL team at St James & are in the process of starting programs at St Kilian. We plan on mentoring these teams during the spring as we spread our mission beyond the reach of our team.

FINISHED!

6. Beyond starting teams, what initiatives have you done to help inspire young people to be science and technology leaders and innovators? What results have you seen from your efforts in the past 3 years?
 - a. Camps; think of another idea of how to have younger stem leadership
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 - d. PRN company? Hopefully start up something with this

5740 annually hosts a STEM summer camp & assists running one w/ the school. At these, elementary/middle school students learn CAD, software, media, build skills, and FIRST values like GP and Coopertition. We have taught 500+ students since 2017, many who have gone on to join our team, FTC team 12578, & are interested in FLL. We also hosted a robotics day at Montessori preschool to inspire young kid's interest in STEM as well as hosted sessions where girl scouts can receive their robotics badge.

FINISHED!

7. Describe the partnerships you've created with other organizations (teams, sponsors, educational institutions, philanthropic entities, etc.) and what you have accomplished together with emphasis on the past 3 years.
 - a. NC/RC with Armstrong
 - b. TRET - Quasics
 - c. Mars - Mars New Years, FTC kickoff

This past season, we assisted the Mars team w/ the FIRST section of Mar's New Year, a community event held every other year. The team later assisted us w/ hosting the FTC kickoff at our school for PA teams. We also partnered w/ 1 of our top sponsors, Armstrong, to host NC/RC, an annual offseason competition. We have kept consistent contact to discuss our partnership going forward. 5740 is also partnered with SCRA, FIRST Ladies, & StudentsFIRST to drive outreach events & participate in alliances.

FINISHED!

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 - a. St. Anthony's program, women in stem (me and bridget as leaders this year, katie, ellie, and lauren as leads)
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- f. An open environment for those with neurodiversity outside of the St. Anthony's program
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- H. SENIORS FIRST

In the past 3 years, we have had multiple students from the St. Anthony's program and those with neurodiversity participate on both our FTC and FRC teams. We also promote women in STEM through our leadership. Over the past three years, we had 6 of our 10 subteam leaders who were women, two of which were Dean's List Finalists. We have joined FIRST Ladies in order to further promote women in STEM as well as younger women through our Girl Scout's outreach.

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- a. Inreach training, allowing new members to take lead in different outreach events
 - b. Pipeline of fl and ftc

We ensure our team will continue to run effectively through our Inreach training. Over the summer and up until Christmas break, we hold code, CAD, and machine training sessions weekly to build the skills of new team members. With our recent addition of the handbook, guidelines, procedures, leadership, & policy have been established to ensure a lineage of an effective, organized, and successful team. Our new attendance policy focuses on commitment of passion and being rewarded for it.

FINISHED!

10. Describe your team's innovative strategies to recruit, retain, and engage your sponsors within the past 3 years.
- a. Invites to end of the year banquet, held a successful offseason competition that we plan to run again, reach out to local groups
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5740 acquires sponsors through networking events, such as PRN, & personal connections. All students on the team are encouraged to reach out to specific companies they may be interested in for sponsorships & facility tours. Sponsors are sent personalized thank you letters after sending in their donation & are invited to our end of the year banquet. With differing monetary tiers, sponsors are invited to tour our facility, thanked during alliance selection, & naming rights to the robot.

FINISHED!

11. Highlight one area in which your team needs to improve and describe the steps actively being taken to make those improvements.

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FIRST's mission has inspired our own: "Building students of creativity, leadership, and professionalism - connecting them to a future enlightened by their STEM experiences." We emphasize that we are not just about building a robot, but we also work towards community outreach, family connections, and growth of our students. We inspire people to engage with STEM through outreach like Summer Camps, Girl Scouts, Montessori, and Senior's FIRST.

FINISHED!

13. Briefly describe other matters of interest to the *FIRST* Judges, including items that may not fit into the above topics. The judges are interested in learning about aspects of your team that may be unique or particularly noteworthy.
 - a. Project management/microsoft planner

One of our team mentors teaches members the importance of Project Management & its applications. We focus on learning about emotional intelligence & how it can benefit leadership, relationships & personal feelings on a team. To help oversee our team & apply management skills, our Leadership Team discusses weekly w/ updates on each sub-team's progress. We use Microsoft Planner to keep track of & assign various tasks. Our tasks are based on each sub-team's goals, promoting efficient communication.

FINISHED!