

Justin's strong entrepreneurial skills lend themselves to innovative leadership. He has accomplished professional achievements at such a young age, but he credits Team 1511 and FIRST with giving him the confidence and engineering knowledge to move forward with his endeavors.

Justin's most impressive endeavor is software he wrote to animate live virtual holographic concerts, some run by SEGA. The software handles all live animating and rendering by combining models with motion data and sound. Justin is currently working with FIRST to host a concert at Championships. He presented his software in 2011, wearing his Team 1511 polo, at MIT where he plans to major in computer engineering. There, he spoke to the CEO of Japan's Crypton Future Media and Edward Grace, an engineer who brought Apollo 13 back to Earth. Justin has publicized his software at www.animiku.net. He has become a leader of the animation community, connecting with people worldwide.

Justin was able to accomplish this because he has been programming since age 9, teaching himself 12 programming languages such as C++, C# and Java. This knowledge came in handy when he joined the team and helped beta-test FIRST's C++ control systems.

On the team, Justin is highly involved in the programming, electrical and strategy subteams. He organizes many of our community service and fundraiser events. For the past 2 years, he has been our Team Captain for Light the Night Walk, raising over \$2,000 for the Leukemia & Lymphoma Society. This year, he started ImagineIT, a fundraiser that recycles electronics. When he's not organizing a team activity, he's participating, from the FIRST Mega Drive on Make a Difference Day to InterVOL, sorting medical supplies for countries in need. He has made a global impact in the software world and in his community service efforts!

Justin also spreads FIRST to diverse groups at our robot demonstrations such as elementary schools, local FLL Championships, and the Monroe County and NYS Fairs, attended by tens of thousands. He was also seen at our main sponsor, Harris' 50th Anniversary Party teaching engineers how to drive the robot. He convinced his father, a Kodak computer engineer, to join the team, and he has become a valuable programming mentor.

Justin has also made major contributions in competition. He is on our Programming Pit Crew, making last minute fixes and improvements in between matches. In 2011, he wrote the firmware for the driver's station and the robot's main autonomous code, and created our new scouting database system. We went from a bubble sheet system to a 6-laptop system that collects data we share with teams to use for selecting alliance partners.

During competition, Justin shows Gracious Professionalism by helping teams with their programming. At the 2011 DC Regional, he heard that a team did not have a concept for their robot so he helped them build a working robot within 5 hours! He also trains many of our new students, passing on his knowledge and skills to the next generation of Team 1511.

Another major contribution Justin has made to the team is helping run the AV system at our offseason competition. He also created the intro video, welcoming all the teams; he went the

extra mile to create original music for it. He designed an interface between a pan/tilt camera and a computer, writing the software to control it. This camera and software have been used to improve our 2012 webcast of Build Season as it scans our shop.

Justin has accomplished major feats in and outside of FIRST and Team 1511, but he has remained humble, gracious and professional. He works hard behind the scenes towards a common goal for the team and FIRST. Justin's commitment and innovation has inspired other students. He plans to continue his inspiration by mentoring a FIRST team at college. We know he will continue to have great accomplishments in the tech world, probably starting his own business. We hope he comes back to sponsor FIRST!