

Career Readiness Challenge

By Riley, Dayami, and Adelaide.

We chose Boston Dynamics as our career readiness challenge choice because the bots they create are interesting to see how they work and how they function in a real world setting. As designing, coding, and engineering robots is the primary work done in the company, it has a similar style and job of Vex IQ teams. There is a team that works together to create and develop bots that fit into everyday life, which having experience from creating simple bots like the ones in Vex IQ which are developed to perform different functions helps. It resonates well with Vex IQ Robotics and is a good career choice to go for.

Boston Dynamic uses a “Build it. Break it. Fix it.” motto, They prioritize a “trial and error process”. That helps them improve and fix their robots in the field. Boston shows their uses of this process by pushing their robots beyond their limits, testing and analyzing how it works and how it doesn't. They prioritize the know-how of how to build their robots for when the time comes to fix them.

In Vex Robotics, the bots made are similarly built like the ones in Boston Dynamics in a way. You have to go through the design process to create the best robot possible for whatever function you need it to. Having this experience would be an incredible help when it comes to the creation of complex robot designing and creating, especially considering standard classes don't teach coding and robot creation. Vex IQ robotics is a great start to any engineering job in general as the competitions are similar to real life jobs where you are forced to work under pressure, work during a limited time period, and communicate with the people around you to do your best work. All of these aspects make Vex IQ robotics a great preparation for Boston Dynamics.

Different Job opportunities, Robotics technician- A Robotics technician is someone who Maintains and builds the robots. Their job is to make sure the robot is functioning at its peak performance. You can become a robotics technician by earning an associates degree in robotics technology. The importance of this job is that you are depended on to be able to fix the robot if it breaks, you need to be ready for any emergency big or small, from when it comes to a small wire breaking or the entire robot breaking down. Senior Test Engineer- A Senior test engineer is a engineer that prioritizes cost-effective testing of computers, programs and robots. It is a Senior Test Engineer's job to make sure the product they're helping to create is at top quality and that everything is working how it should be. If a Senior test engineer wasn't in the picture then the organization would have trouble coming up with ways to test their ideas without spending an unnecessary amount of money on it. Field Service Engineer- Much like a Robotics Technician, Field Service Engineers help rebuild and create products. The difference between a Robotics Technician and a Field Service Engineer is that Field Service Engineers are out on the front lines carefully prepared for an emergency or just a quick touch up. They make sure that the robots are ready to go from the get-go.

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- **2. Up to 15 points** for a description of how the chosen profession or company applies steps of the engineering design process, and how their process compares to the team's process

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- **3. Up to 15 points** for describing how participation in VEX Robotics prepares you for a future career

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