**Market Analysis**

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| Product Description | Two robots that autonomously play a modified version of soccer against another team of two autonomous robots. |
| Primary Market or Use | -Fulfill ABET requirement for an engineering design project.  -Advertise the Electrical Engineering Department in order to attract more students |
| Key technology or features | -Autonomous, self-powered robots driven by Raspberry Pi 3’s.  -Overhead camera and computer for vision processing. |
| Describe the intended user | -Students advertising to the public |
| Critical Assumptions | -Outputs to robots are PWM commands to motors and similar commands to any additional hardware that we add.  -Collisions are illegal  -The field is designed so that the ball cannot get stuck along the walls  -Vision processing will be the most computationally intensive bottleneck  -Motion control will be comparatively difficult to implement  -This simulation has good fidelity relative to the actual operation of the robots |
| Stakeholders | -Team members  -Advisors  -Electrical and Computer Engineering Department |