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## Grand Blanc High School Robotics Team 2015 Competition Deliverable Driver and Operator Skills Challenge



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Mentors to ask if you have questions about this Challenge: Brandi Bolinger or Clinton Bolinger

*IMPORTANT NOTE: You must attend a competition that is offering official Skills Challenges or one of the designated Skills Challenge days at The Robot Space in order to complete this challenge.*

### Gather the following Materials:

1. The Designated Robot for the Challenge
2. Your Engineering Notebook
3. Writing Utensils
4. A time-keeping device (stopwatch, wrist watch, phone, etc)
5. Nothing But Net Competition Overview - Appendix B

### Before Starting this Challenge:

1. Read Appendix B (attached) of the Nothing But Net competition overview, or here: <http://content.vexrobotics.com/docs/vrc-nothing-but-net/VRC-Nothing-But-Net-Appendix-B-Robot-Skills-Challenge-20150612.pdf> and familiarize yourself with the process of participating in a VEX Skills Challenge.
2. Sign up to participate in the Skills Challenge at the event you're attending OR sign up to participate in the Skills Challenge Day at The Robot Space

### Challenge Instructions

1. **You will need to complete this challenge TWICE. Once as a DRIVER, and once as an OPERATOR.** (NOTE: You will not be completing the Programming Skills Challenge for this deliverable; the Driver Skills Challenge will be used twice to complete this deliverable.)
2. **TWO** people should be completing this challenge simultaneously; one as the OPERATOR, and one as the DRIVER. Give first opportunity to people who have not had the opportunity to complete this deliverable.
3. Assign a person (who is NOT participating in this challenge as the Driver or Operator) to be the time keeper. If the group, collectively, does not have a device to use for time-keeping, see Brandi or Clinton.
4. Ensure that the field is set up in the fashion outlined in Appendix B (attached).
5. Connect the robot to the field, and complete the Skills Challenge as per the instructions in Appendix B.
6. Reset the field for the next group to use.
7. Repeat this challenge as necessary to complete as an OPERATOR and DRIVER.



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### Engineering Notebook Entry Instructions:

*Answer the following questions (using complete sentences) in your Engineering Notebook:*

1. During a Skills Challenge Qualifier (only available at VEX competitions with more than 16 Teams, and a registered Skills Challenge event), what is the advantage of participating in Skills Challenges? (This may require some research. Start with the Nothing But Net Competition Overview, available by searching the internet, or here: <http://content.vexrobotics.com/docs/vrc-nothing-but-net/VRC-Nothing-But-Net-Game-Manual-20150612.pdf>)
2. Why is it important to maintain communication between the DRIVER and OPERATOR before, during, and after a match?
3. What did you learn (that you previously hadn't realized) while completing this Skills Challenge as an OPERATOR?
4. What did you learn (that you previously hadn't realized) while completing this Skills Challenge as a DRIVER?
5. What was your score as an OPERATOR? Without changing anything on the robot, what could you do to improve your score?
6. What was your score as a DRIVER? Without changing anything on the robot, what could you do to improve your score?
7. After completing these Skills Challenges, do you think you would enjoy being on a VEX Drive Team (as a Driver or Operator)? Why or why not?
8. How have these Skills Challenges changed your impression of the roles, responsibilities, and emotions that come with being a member of the Drive Team?

### To Complete Your Challenge:

- Take your completed Engineering Notebook entry to Clinton or Brandi **AT THE NEXT TEAM MEETING YOU ATTEND** to have your deliverables checklist validated.