

Oklahoma Region

Sandite Varsity Botball- 0077

Period One - Project Plan

Goals and tasks for Botball 2019

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| 1) <u>Game goals and tasks</u> | <u>February 7, 2019</u> |
| a) Get Botguy And Mayor | January 22, 2019 |
| i) Drive towards skyscraper consistently | January 22, 2019 |
| ii) Grab Mayor and Botguy consistently | January 22, 2019 |
| b) Get Firefighters On Skybridges | January 24, 2019 |
| i) Retrieve firefighters from pole consistently | January 22, 2019 |
| ii) Put firefighters on skybridges consistently | January 24, 2019 |
| c) Work Utility Zone | January 31, 2019 |
| i) Drive towards the power lines consistently | January 14, 2019 |
| ii) Reattach wires consistently | January 22, 2019 |
| iii) Retrieve gas valves consistently | January 22, 2019 |
| iv) Place gas valves on PVC consistently | January 28, 2019 |
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| 2) <u>Robot building goals and tasks</u> | <u>January 31, 2019</u> |
| a) Build Claws | January 24, 2019 |
| i) Detailed drawing of Babybot | January 22, 2019 |
| ii) Detailed drawing of Create | January 22, 2019 |
| b) Complete final construction of Babybot | January 31, 2019 |
| i) Attach claw | January 28, 2019 |
| ii) Attach sensors | January 31, 2019 |
| c) Complete final construction of Create | January 31, 2019 |
| i) Attach claw | January 28, 2019 |
| ii) Attach sensors | January 31, 2019 |
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| 3) <u>Programming goals and tasks</u> | <u>February 22, 2019</u> |
| a) Run diagnostics | February 4, 2019 |
| i) Run wheel diagnostics | February 4, 2019 |
| ii) Run camera diagnostics | February 7, 2019 |
| b) Complete Babybot programming | February 21, 2019 |
| i) Program bot to drive towards power lines. | February 14, 2019 |
| ii) Program arm to fix power lines | February 14, 2019 |

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- c) **Complete Create programming** **February 21, 2019**
 - i) Program the create to drive to the skyscrapers February 14, 2019
 - ii) Program the camera to detect different colors February 14, 2019
- 4) **Documentation goals and tasks** **March 6, 2019**
 - a) **First period documentation Complete** **January 28, 2019**
 - i) Class meet and discuss schedule January 17, 2019
 - ii) Selected members complete Project Plan January 22, 2019
 - b) **Second period documentation Complete** **February 20, 2019**
 - i) Setup Github account February 4, 2019
 - ii) Create Mechanical Design Video February 7, 2019
 - c) **Third period documentation Complete** **March 6, 2019**
 - i) Submit Github code February 28, 2019
 - ii) Team members complete survey March 4, 2019
- 5) **Schedule Conflicts**
 - a) Martin Luther King Day January 21, 2019
 - b) President's Day February 18, 2019

Team Organization

- 1) **Team meeting schedule**

All meeting days meet from 3:30-6.

 - a) Regional Workshop January 12-13, 2019
 - b) Regional Competition March 19, 2019
 - c) GCER July 7-11, 2019
 - d) January meeting days: 7, 10, 14, 17, 22, 24, 28, 31
 - e) February meeting days: 4, 7, 11, 14, 19, 21, 25, 28
 - f) March meeting days: 4, 5, 6, 7, 8
- 2) **Division of Labor**
 - a) Adult Team Leaders: Mrs. Johnson, coach
 - b) Student Team Leaders: Carl, Varsity Captain
 - c) Create Team: Carl, lead
 - d) Demobot Team: Jonah, lead
 - e) Documentation Team: Bryson

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3) **Conflict Resolution**

Carl is the team mediator who will lead the group during a conflict and help the team:

- a) Clarify what the disagreement is.
- b) Establish a common goal for both parties.
- c) Discuss way to the common goal.
- d) Determine the barriers to the common goal.
- e) Agree on the best way to resolve the conflict.