



College Park Academy vs. Robotics



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Introduction

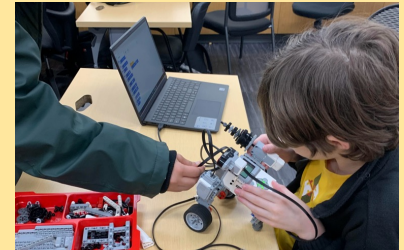
I took the CPSS240 service-learning course, which worked with local schools, including College Park Academy. In this course, we split into teams and developed a curriculum that explored Lego robots, sensors, and the Lego EV3 programming software. Our ultimate with the goal was to complete a grand challenge.

Site Information

College Park Academy
5751 Rivertech Ct, Riverdale Park, MD 20737
Supervisor: Vivian Ali Zohery
Site mission: Develop a curriculum building up to a grand challenge, a show presenting what the students have learned throughout the semester.
Goal: Create a greater love and zeal for STEM.

Activities

- Met once a week in classroom study to create lesson plans and to discuss topics relevant to education with an emphasis on STEM education.
- Went to College Park Academy once a week to implement the lesson plans, each week building off the other until the grand challenge.



A student and a team member coding and working on a robot.



Loading page of the Lego EV3 robot.

Impact

This experience enlightened me about the disparities in STEM education. Now I know how to combat stereotypes or inequalities in STEM. These new insights helped my group create lesson plans, while keeping our students in mind. We made sure to not set any limitations on our students to let them have room to be challenged, creative, and have fun.

Issues Confronting Site

We needed to work with students at different levels of experience with coding. Finding a balance between how to incorporate all students was something my team had to consider.

Future Work

This course revealed real-world issues in STEM education. In the future, we can be more supportive of anyone pursuing a STEM discipline. Our students have a greater understanding of coding with the Lego EV3, software and can challenge themselves by working with more advanced softwares and creating more intricate codes.

Acknowledgments

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