# CprE 492 - sddec21-14
# IT-Adventures
# Report 3

*September 28, 2021 - October 11, 2021*
*Client: IT Adventures*
*Faculty Advisor: Doug Jacobson*

## Team Members:

Dakota Berbrich - Robotics
Nolan Jessen - Robotics
Aaron Goff - Smart-IT
Noah Berkland - Smart-IT

## Past Week Accomplishments

- First PIRM completed!
    - Feedback primarily consisted of changing the SDK/platform (outside of our control) and on feedback for the curriculum
    - Good suggestions for testing and reviewing the curriculum, using feedback from the high schoolers themselves, that the team will consider going forward
- Smart-IT (Aaron and Noah)
    - Sphero RVR lesson plans developed
        - RVR python projects written out
        - Lesson plan outline finished with the exception of challenges
        - Lessons researched and charted
- Robotics (Nolan and Dakota)
    - Progress in December challenge
        - Continuing to work to understand the sensor limitations
        - Finalized some components of December challenge
    - Spring small challenges chosen
        - The previous spring challenges have been partially adapted to the new architecture, including decided which ones are most feasible and will be used

## Pending Issues

- Continuing lack of sensor interface for the RVR from the micro:bit poses challenge in making fully functional robotics challenges
- Attempting to understand how to utilize the built-in infrared and magnetometer sensors for Smart-IT

## Individual Contributions

| Team Member | Contribution | Weekly Hours | Total Hours |
|---|---|---|---|
| Dakota Berbrich | Continued to work on lesson plans and final challenges. I particularly looked at the limitation of the Little:Bits to determine the scope of our final challenges for Robotics. | 12 | 46 |
| Nolan Jessen | Continued working on small challenges | 11 | 55 |
| Aaron Goff | Laid out November lesson plan for the Sphero RVR, continued to expand on JSON and Python knowledge. | 10 | 107 |
| Noah Berkland | Nearly finished Module 2 outline, just need to finish challenges, researched python knowledge for future lessons, and charted lesson plans for module 2 | 12 | 46 |

## Plans for Coming Weeks

- Robotics - **Nolan and Dakota**
    - December Challenge creation
    - Finalizing December lessons and publication
    - Start adapting and creating small challenges, both for practice and for competition
- Smart-IT - **Aaron and Noah**
    - Finalize Module 2 outline, lessons, and challenges
    - November and December Challenge Creation

- Continue to create updated Python code relevant to what is needed for driving the RVR inputs and outputs
    - Including step-by-step instructions via video