**Project Proposal**

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Amateur Rocket Avionics System

After thoroughly considering all ideas presented, we decided to focus on a rocket avionics system for our practicum project. We believe this project will fulfil the requirements of the practicum project, while also providing us a good first step into rocket avionics and Arduino programming. To fulfill the requirement of a sensor, we plan on including an accelerometer and attitude sensor. These data from these sensors will be output to an Arduino, which will store the data on an onboard SD card.

Once data is stored from the flight, the system will be recovered and data can be analyzed. We also plan on creating a user-interface which can easily display data, battery, and basic flight path.

After looking over most of the components that will be included in this project, we saw that they are relatively cheap, easily acquirable, and have good variety between through-hole and surface mount. The Arduino and sensors will also be placed on a PCB which we will design and layout. We believe this project will be interesting to all of us, and will also meet the requirements of the practicum project.