**CSC481 Senior Project: Replacing Proprietary Software with Open Source Extensions**

**Purpose:** Help Convert Parts of the Engineering Curricula to Python

**Team:** Eric Murari – sole member responsible for all aspects of project

**Stakeholder:** Dr. Rico Picone, Mechanical Engineering Faculty

Advantages of Python

* No Cost
* More Functionality
* Easier to learn other languages
* Open Source
* More readability
* More powerful
* Easier object oriented programming

Progress thus far

* Installation of libraries and systems
* Explanation of limited progress: course load

Progress week by week:

By September 13: Had met with Dr. Picone. He suggested I start with one of the courses he is teaching this semester (a class on control systems)

By September 29: Met with Dr. Picone again, he sent me the notebooks and linked me the libraries

By October 12: Installed necessary software systems and libraries

Alternative options considered:

Sagemath, rejected due to the fact that it does not support some functions

Plan For Next Semester:

Conversion work

Finish soon

Python/teaching conference