

Contract #	Term	Course	Contract Title	Description
417090	Spring 2019	CPSC 4176	Management in Software Engineering Projects	Through my Senior Software Engineering Project, I realized I was taking a leadership position in my group. In this position, I began using many management styles I learned in my business management class. I would like to compare what management style is best while working through the Software Engineering Project. This project would be a presentation of the different styles I used during my project. It will be presented at Tower Day 2019 at Columbus State University.
417095	Spring 2019	CPSC 5128U	Transpiler for Domain-specific language to Windows Batch Script	The goal of the project is to develop a transpiler that would turn a Domain-specific language(DSL) into Windows Batch Script. A transpiler is a source-to-source compiler that produces the source code of one language when provided the source code of another. The transpiler would be written in Python with ANTLR parsing the custom script language. ANTLR (ANother Tool for Language Recognition) is a parser generator for reading, processing, executing, or translating structured text or binary files. The DSL will take the form of a scripting language as it is purposefully being translated to another script format (Batch). Batch is a type of script file specific to the Windows/DOS operating systems that is composed of commands that are executed by the command-line interpreter. A grammar must be produced for the DSL that can be processed by ANTLR. After the grammar is processed, the python code will begin translating each piece into the mapped Batch commands. The DSL will have to be capable of accepting input for arithmetic operations, logical operations, conditional statements, looping, creating/deleting files and folders, accepting user input via command line or file, outputting to the command line or file, and executing OS specific commands with parameters.