* Research other tools for GA / PSO (Hybridization)
  + Need to look into at-least 3 different Optimization tools and come up with a metric to see what features are required for a tool like this
  + Test them against each other on different test cases
    - Need to create testcases to test these tools against each other
    - Need to define a set of standards that makes a tool’s feature “better” than another tool.
    - Need to create a list of features needed in our own toolset.
* Finish GA->PSO project
  + Need to create a set of requirements for this project
    - Set a loose set of requirements for a tool set
    - Create Class Diagram
    - Fill Methods
  + Design:
    - General Optimizer Class
    - GA Class
    - PSO Class
    - Solution Space Class
    - Different Plug and Play with GA stuff (speciation) (selection) (mutation)
    - Different Plug and Play items with PSO
    - Need to have Dynamic Solution Space Generation
    - Have Standard Solution Spaces generated from functions like (Ackley’s, etc.)?
  + Look up different papers on GA/PSO Hybrids and find features from them.
    - How did they deal with the GA->PSO switch and vice versa?
    - What were the ideal parameters for GA & PSO?
    - What Test Functions did they use?
  + Write Paper on GA->PSO Hybridizations
* Develop a tool for GA/PSO Hybridizations
  + Based off of the last research project build off of the tool created in designing usable SRS Document
  + A set of requirements for the GA/PSO hybridization toolset
    - GA
    - PSO
    - GA->PSO, PSO->GA Hybrids
      * Different types of switches
    - Dynamic Solution Space Generation (Perlin Noise)
  + Different Plug and Play modifiers for GA and PSO and the Hybridization for the two
  + Write Paper on the tool
* ML Search Space Generation
  + Look up research in Solution Space creation, noise, and see if we can create a deep learning algorithm that can create a Solution Space.
  + ML agent that optimizes vs a ML agent that creates Solution Spaces (competition)