This document will highlight the design decisions for the Gutter Cleaning Robot Project.

Goals:

1. Achieve a design with higher cleaning efficiency / min then our capstone results
2. Design a Custom Pcb for the task (Career-experience centered goal )
3. Design a sensor or algorithm to allow the robot to be autonomous instead of automated. task (Career-experience centered goal )

Current State:

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**Examples of Structured Filenames:**

* **Hardware Schematics**:
  + GCRP\_PCB\_MotorController\_v1.sch
  + GCRP\_PCB\_PowerSupply\_20240705.sch
* **Software Components**:
  + GCRP\_SW\_Navigation\_Algorithm.py
  + GCRP\_SW\_Communication\_BluetoothModule.py
* **Testing Scripts**:
  + GCRP\_Test\_Hardware\_MotorController\_v2.py
  + GCRP\_Test\_Software\_Navigation\_UnitTest\_20240706.py