Single Pin IV Analysis

1. Assemble the connectors using the manufacturing process.
   1. Using the chips, place four header pins spaced apart by one pin on each side of the chip (totaling eight)
   2. Repeat for the second part of the connector
   3. Make sure that XC is facing the same way on both sides of the chip
   4. Grab a separator and glue one chip to it such that the pins go into the separator.
   5. Mix the nickel nanofiber with the A & B Loctite mixture according to our current nanofiber volume percentage
   6. Run it through the dental machine twice (ten seconds)
   7. Fill the connector with the mixture
   8. Glue on the other chip to complete the connector
   9. Wait ten minutes for it to properly seal
   10. Put connector in oven according to excel sheet
   11. Engrave the connector numbers
   12. Perform a forward pass on the connector and write down the resistance values
2. Do an IV Sweep
   1. Connect the connector to the connector converter
   2. Open up LabVIEW
   3. Confirm details
   4. Select Com 4 and XP Power
   5. The code is set up to sweep the voltage up .25V a second
   6. It will reach a maximum value and then descend back to 0
   7. That sweep down will be at the same speed as the sweep down.
3. Repeat the process until maximum voltage limit is obtained
   1. Each connector contains 4 pins. As there are two connectors per combo, this leads to 8 total pins that can be trained.
   2. Initially, go up by 10 V per test
4. Compile results in a graph
   1. Compare to other tests and other experiments

(Side note: the pins can also be changed in the LabVIEW program)