**SDEV 220 Project**

**GitHub**

[**ratclst11/SDEV-220-Project**](https://github.com/ratclst11/SDEV-220-Project)

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**Scope:**

Program will be used by a manufacturing company. The system will use a GUI for entering information. Enter data from the alignment of a product at the factory for future field support, if any issues occur when the product is put into service. This will show the product was correctly assembled before leaving the manufacturing facility. Managers and Engineers refer to documentation for decision making.

**Program Layout:**

* Enter individual product information.
  + Enter Product Label, Serial Number and date for identification.
* Check the gap at 3, 6, 9, and 12 o’clock when alignment is complete.
  + Gap can be between 0.0254mm and 0.0762mm.
  + Enter the data
* Document shim thickness at Front Right, Back Right, Front Left, and Back Left of product.
  + Shim thickness is between 0.00mm and 12.7mm.
  + Enter the data
    - The thickness will be added up to show total shim thickness at each check location.
* Data uploaded to Microsoft Excel Spreadsheet.

**Classes for this would be:**

1. **Product**: To store product information such as the label, serial number, and date.
2. **Gap Measurement**: To store gap measurements at different clock positions.
3. **Shim Measurement**: To store shim thickness measurements at different positions and calculate the total shim thickness.
4. **Data Entry** **GUI**: To handle the GUI for data entry and interaction.

**Timeline**

Week 3-Develop a Plan for Project Launch-Complete

Week 4-Define specifics of the program-Complete

Week 5-Develop Code-Complete

Week 6-Final Project Check In/Develop Code-Complete

Week 7-Testing and Running Scenarios-Complete

Week 8-Final Project Submission-Complete