# Project proposal

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| --- | --- | --- | --- | --- |
| **Name of Candidates** | **A** | **B** | **C** | **D** |
| **PS Numbers** |  |  |  |  |
| **Name of Mentor – Delivery** | **Sudipta** | | **PS No 20020819** | |
| **Name of Mentor- GEA** | **YYYY** | | **PS No** | |
| **Project Period** | **From: November 2020 To: December 2020** | | | |
| **Date of Completion** |  | | | |

### **Project Title**

* Design and Implement an application using QT, C++ in Linux platform to plot and analyze the histogram for given input of data points.

### **Project DETAILS:**

1. **aim**:

* Design an application which takes input to set of data points and then plots the histogram. User should interact and analyze the histogram by zooming in and zooming out and by changing the configurations for the histogram

1. **Problem statement:**

* Consult customer and obtain detailed requirements.
* Understand the tool requirements
* Decide mechanism for data storage and retrieval.
* Design algorithm, data format and structures for storage.
* Implement various interaction methods like zoom in, zoom out, accepting and rejecting desired data points.
* Implement the logic to traverse through the histogram bins and applying multiple filters to tailor the shapes of the histogram.

1. **Objectives & Learning outcomes of the project**

* Technical challenges for data representation for the histogram.
* Implementing the Interaction methods.
* Knowledge on C++ and Qt
* Knowledge on Linux OS and the native and cross compilers.
* Design of data structures for storing and transmitting data

1. **Key Deliverables:**

* Requirements specifications
* Firmware design document, calculations, state diagrams, flow diagrams and code in C/C++.

1. **Hardware & Software Recommendations**

* SW – 2

1. **Weekly Progress (gantt chart)**



### **REVIEW**

* Weekly reviews to be conducted over the entire tenure of Project
* Each review comprises of a progress presentation from the candidates
* Mentor may demand daily / Weekly deliverables
* behavioral Traits would be evaluated along with project deliverables

### **Final Review and Recommendation:**

* Rating and Score against each parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No** | **Parameter** | **Rating** | | **Score/5** |
| **1** | **Approach towards the problem** |  | |  |
| **2** | **Analytical Ability and Results discussion** |  | |  |
| **3** | **Independent Work +Team Work** |  | |  |
| **4** | **Presentation Skills** |  | |  |
| **5** | **Project Deliverables** |  | |  |
| **6** | **Quality of Project Thesis** |  | |  |
| **7** | **Communication Skills** |  | |  |
| **8** | **Attitude** |  | |  |
| **9** | **Confidence** |  | |  |
| **10** | **Innovation** |  | |  |
|  | **Total** |  | | **/50** |
|  |  |  |  | |

A= Exceeds Expectations B= Meets Expectations C=Does not meet expectations

**Recommendation:**

**Progression: Yes No**