**ONE AXIS AUTOMATED DRILL 10 WEEK WORK PLAN FOR OCTOBER- FEBRUARY SEMESTER**

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| WEEK NUMBER | DATES | ACTIVITY | OBJECTIVE | INVOLLVEMENT |
| 1. | 7th November- 13th November | In depth familiarization with existing model | * Analysis of mechanical set- up, identifying improvement areas. * Analysis of circuitry, identifying improvement areas * Analysis of used code and MATLAB files | 3 meetings during the week of all group members at the drill station (Monday, Wednesday, Friday) |
| 2. | 14th November- 20th November | Full model design in SolidWorks | To design the full setup of the physical model with the improvements made. | Division of parts among group members, each tackling own design part, meetings to analyze progress and assemble, 2 group meetings. |
| 3. | 21st November- 27th November | Importing CAD Files to MATLAB and modelling | Simulate the mechanical set-up in MATLAB | All group members involved. 3 meetings during the week. |
| 4. | 28th November- 4th December | Finite element analysis in Abaqus | Analysis of forces of the system | All group members involved. 3 meetings during the week. |
| 5. | 5th December- 11th December | Finite element analysis in Ansys | Analysis of forces of the system | All group members involved. 3 meetings during the week. |
| 6 and 7 | 12th December- 23rd December | Circuit design in Proteus | Full circuit design of system | All group members involved. 2 meetings per week, total 4 meetings. |
| 8 and 9 | 2nd January- 13th January | Programming of system and simulation | Development of embedded program. | All group members involved. 2 meetings per week. |
| 10 | 14th January- 18th January | Analysis of objectives and challenges |  | All group members involved. 2 meetings in the week. |