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|  | **2017** |
|  | Challenger Institute of Technology  South Metropolitan TAFE  Fremantle |

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Table of Contents:

* Introduction
* Evidence
* Conclusion

Introduction:

The objective of the Progress report is to inform and update all our lecturers on how the lathe project is going as well as, assist in making people on the amount of work they have done toward the project.

The main objective for this semester was to convert the purely manually lathe into a CNC (computer numerical control) lathe, that is going from a human moving everything except the spindle to having a computer do all the work.

Evidence:

This page is to show all evidence that I have done in the second term of the first semester. This will include my CAD (computer aided design) work as well as my contributions to helping set up the moving model. These will be shown with pictures and have a small sentence to explain the picture and what is being done.

1/08/2017 – 31/08/2017:

I worked mainly on Rosani Mujica’s computer to update the cad document with correct dimensions for the, cross slide, carriage and the tool post to make them fit correctly within the CAD of the lathe.

I have also modified the carriage to accept the nut for the ball screw that will be used for the movement as well as designing the mount for said nut. I have also uploaded the finished encoder to Git Hub as well as draw the bearing mount Ross Jarvis and Tom the technician have made.

**Conclusion:**

To sum up I have provided different CAD models to the group as well as help get the moving lathe to show how it works but also allow a more accurate drawing. I have also help lead the electrical team with research and filling in documents.