Brandon Jobnexus

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# PROFESSIONAL EXPERIENCE

**ENGINEERING TECHNOLOGIST August 2013 – Present**

# CAdet Technology

* Solely assigned to record, modify and implement all program file recordings for plate thickness to colour allocation when a non-manifold has been created.
* Refine these models to either a Mass or Mid-surface model (FEM) and prepare the model for analysis by using either FeMap or Solid Edge packages.
* Assist in the allocation of strain gauges during various destructive testing.
* Creating CAD models from drawings received.
* Create drawings - both manufacture and layout.
* Measuring and documentation of existing structures.
* Second moment of area calculations.
* Creating and maintenance of CAD software templates (Solid Edge).
* Allocate appropriate symbols for welding according to plate thickness. Capturing data and creating spreadsheets for statistical analysis.
* Element modelling (FEM):
	+ Mid-surface modelling and meshing (4 Nodal planar element).
	+ Solid modelling and meshing (10 Nodal tetrahedral element).
	+ Beam element models and meshing (2 Nodal element).
	+ Refining of mesh models (Jacobian and aspect ratio).
	+ Allocating of masses and standard Newtonian calculations.

# DRAUGHTSMAN April – August 2013

**EWT-SA**

* Refinement of CAD models, some of which can be considered as small to medium sized models.
* Verified sizes, dimensions and drawings.
* Assisted in the purchase of material and fasteners.
* Creation of databases for project construction.
* Assisted with live fire tests.
* Solving of assembly movement errors.

# TECHNICIAN IN TRAINING November – December 2012 MMS Technology

* Assisted in the construction of a portable radar.
* Using everyday machinery, tools and equipment, various tasks were completed ranging from grinding, measuring and fitting.

# EDUCATION & COURSES

* **National Diploma: Information Technology**, Houston University, 2020
* **Programme in Project Management (PPM)**, Houston University, 2018

**COMPUTER & GENERAL SKILLS:** Solid works, Sketchup, FeMap, Microsoft Word & Excel, EndNote, Siemens NX, Solid Edge, Libre Office, Visual Basic (GUI and CLI), Mechanical Components Design (CAD), Finite Element Modelling (FEM)