

Angel Zeth M. Tolod

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Web Portfolio: az-tolod.ca/

EDUCATION

Mechanical Engineering Technology Diploma in Design

British Columbia Institute of Technology, Burnaby, B.C.

2021-2022

Mechanical Engineering Technology Diploma in Manufacturing

British Columbia Institute of Technology, Burnaby, B.C.

2018-2020

Bachelor of Science Degree in Mechanical Engineering

Eastern Visayas State University, Tacloban, Philippines

2011-2016

Degree Capstone Project

- Designed and manufactured a modified biodiesel mini-production plant using cooking oil
- Produced all supporting documents required for the manufacture of the project

BCIT Final Manufacturing Project

- Designed and manufactured a 3D puzzle dragon assembly prototype design
- Drafted concept sketches and completed 3D models in SolidWorks
- Produced all supporting documents including shop drawings required for the manufacture of the assembly

Computer Skills

- Proficient with engineering programs such as AutoCAD and SolidWorks for computer aided design.
- Familiar using manufacturing programming software such as Vericut and Mastercam for milling and turning operations
- Familiar with using MATLAB for computing matrices
- Familiar with motion analysis and FEA simulation using SolidWorks
- Proficient in Microsoft Office suite, such as Word, Excel and PowerPoint

Drafting and Mathematics Skills

- Completed various courses on dynamics, physics, strength of materials, calculus, electrical circuits and similar engineering principles
- Ability to interpret raw data and convert it to histogram, run charts, Pareto charts and ogives.
- Proficient in generating proper engineering drawings, including GDT

Machine Skills

- Familiar with G-code for CNC milling and turning
- Familiar with use of manual equipment such as lathes, mills, and surface grinders
- Learned how to use metrological (quality and dimensional testing) equipment such as gage blocks, an optical comparator, an optical flat and machine, and a CMM
- Familiar with plastic manufacturing processes

Communication Skills

- Fluent in English and Tagalog
- Delivered PowerPoint presentations to classmates and instructors
- Wrote technical documents such as lab reports, instructions, and mechanism descriptions
- Able to work co-operatively with people of diverse backgrounds and cultures
- Responsible, punctual, organized, initiative, cooperative and pay attention to detail
- Works well with others in a team as well as independently with minimum supervision

Other Skills

- Familiar in electrical circuit construction, testing procedures, and PLC programming.
- Proficient in basic hand tools
- Familiar with Lean, Six-Sigma principles and ISO 9000 standards.
- Knowledgeable about Root cause analysis

WORK EXPERIENCE

Machine Operator

Vitacore Industries Inc., Vancouver, BC

2021-current

- Ensured stringent quality control of the product to reach industry standard.
- Completed digital paperwork to monitor quality.
- Assisted in shipping the products.
- Operated the mask-making machines and followed safe practices of the company.

Sales Associate

Dollarama, Vancouver, BC

2018

- Organized the products to different aisles and provided assistance to customers
- Followed safe practices of the company and operated the cashier terminal

Laborer

CAP Personnel, Vancouver, BC

2016-2017

- Packed and labeled various products and followed safe practices of the company
- Assisted QA Manager with maintaining the quality control of the product
- Ensured the supplies/inventories are in stock and organized for timely use

OJT Intern

Coca-Cola Beverage Plant, Tacloban, Philippines

2015

- Gained experience with waste water management of the site
- Assisted in various on-site safety inspections and in designing the motorcycle parking lot
- Converted hardcopy of blueprints to digital models using AutoCAD

Please visit my web portfolio **az-tolod.ca** for more information about my projects, CAD, and technical writing.