**Amiel M. Cadeliña**

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**Education**

**MAPUA UNIVERSITY**, B.S. in Manufacturing Engineering (March 2022)

* Relevant coursework: Production and Operations Management, Manufacturing Processes, Computer-Aided Manufacturing, Mechatronics.
* DOST scholar on Coursera Courses

**Professional Development**

**Coursera**

Everyday Excel, Part 1

**University of Colorado**, Boulder (March 2022)

* Navigating Excel, editing the worksheet (including inserting/deleting cells, columns, and rows), and cell formatting.
* Expression entry and common Excel formulas (including logical functions, text functions, and financial functions).
* Data management (sorting, filtering, consolidating, removing duplicates, data validation, and one-way lookups).
* Data visualization (scatter plots, column charts, pie charts, Slicers, Sparklines, and Pivot Tables).

Introduction to CAD, CAM, and Practical CNC Machining

**AUTODESK**, (January 2022)

* + - Learned the basics of navigating, sketching, and modeling using Autodesk® Fusion 360™.
    - Learned the basics of machining: coordinate systems, work holding devices, tools, and types of cutting.
    - Setting up and cresting a CAM program.

Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360

**AUTODESK**, (July 2021)

* Learned how to design for manufacture workflow and shows how to validate models and create the G code, the programming language needed to instruct the CNC machine on how to move.
* Practiced the basics of part and assembly design, and tools such as animation, rendering, and simulations using Autodesk Fusion 360.

Introduction to Thermodynamics: Transferring Energy from Here to There

**University of Michigan,** (February 2021)

* Learned first abstract concepts of thermodynamics properties – including the specific heats, internal energy, and enthalpy.
* Practiced combining application of the Conservation of Mass and the Conservation of Energy for system analysis.

Getting Grounded on Analytics

**Development Academy of the Philippines** (SPARTA), (May 2020)

* Learned the various Analytics roles and the corresponding required competencies in each role
* Practiced determining how to link organization’s goals, people, resources, and data together to build a successful Analytics strategy roadmap.

Engineering Systems in Motion: Dynamics of Particles and Bodies in 2D Motion

**Georgia Institute of Technology**, (March 2020)

* Learned about particle kinematics, Newton's Laws and Euler's Laws, motion of particles and mass centers of bodies.
* Immersed in the work-energy principle for particles/systems of particles, impulse and momentum, impact, conservation of momentum and Euler's 2nd Law - Moment of momentum.
* Learned about planar (2D) rigid body kinematics, relative velocity equation, rotation about a fixed axis, instantaneous center of zero velocity, and relative acceleration equations.

*Certificates available at:* [*https://github.com/amielcadelina/professionalcertificates*](https://github.com/amielcadelina/professionalcertificates)

***Trainings/Seminars***

Manufacturing Plant Tour at Murata, December 7, 2021

**Philippine Manufacturing Co. of Murata, Inc.**

The Business of Motorsports, the Politics of Alternative Fuels and Notes of Aspiring Engineers, December 9, 2021

**MAPUA UNIVERSITY**

Vehicle Assembly Manufacturing, Operations, Management and Development, December 9, 2021

**MAPUA UNIVERSITY**

Contactless Tool Management and Digital Manufacturing, June 14, 2021

**DOST-MIRDC**

3D Modelling Assembly, June 15, 2021

**DOST-MIRDC**

TRUMPF Laser System for Additive Manufacturing of Metal Parts, June 16, 2021

**DOST-MIRDC**

3D Modelling, June 14, 2021

**DOST-MIRDC**

Additive Manufacturing, An Overview, June 7, 2021

**DOST-ADVANCE MANUFACTURING CENTER**

*Certificates available at:* [*https://github.com/amielcadelina/professionalcertificates*](https://github.com/amielcadelina/professionalcertificates)

**Work Experience**

**General Electric (Virtual Internship)**

Issued 2nd Certificate of Completion on November 14, 2021

* Created a high-level Business process map
* Develop a Fish-bone diagram and summarizes a Problem Statement
* Identify Potential Solutions

**General Electric (Virtual Internship)**

Issued 1st Certificate of Completion on November 5, 2021

* Completed Practical Task Module on Energy Power Generation
* Completed Practical Task Module on Healthcare
* Completed Practical Task Module on Aviation Systems

*Certificates available at:* [*https://github.com/amielcadelina/OJT-certificate*](https://github.com/amielcadelina/OJT-certificate)

**Vizee Analytics (part-time Work from Home),** 2020-present

* Created data analysis and data visualization using Tableau.

Output available at <https://public.tableau.com/app/profile/amiel.mabalot.cadeli.a>

**Project**

**Hydraulic Maintenance Platform (B1 Type),** May 2021-August 2021

* Design and Simulation of B1 Hydraulic Maintenance Platform.

Output available at <https://docs.google.com/document/d/152WDfyMCDsP7dtENn2bpS6GbyaPlhwc_/edit?usp=sharing&ouid=101988958444706358360&rtpof=true&sd=true>

**Test Scores**

**TOEIC(Test of English for International Communication),** June 2021

* Listening and Reading – 940/990 – B2 level: Upper Intermediate
* Speaking and Writing – 300/500 – B1 level: Intermediate

**Technical Skills**

Microsoft Office (Word, Excel, Powerpoint), Google Suites, MATLAB, AutoCAD/Fusion 360, Tableau B.I. Tool, CNC, Figma and iNZight.