

Ralph Andrei A. Catapang, ME

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Overview

Proactive and goal oriented designer with experience in the Renewable Industry, specialized in retrofit solar installations for existing residential homes in the US. Equipped with the ability to innovate and develop tools that will help for process improvements. Able to adapt and use workflows of different 3D softwares with design intent in mind.

Professional Experience

Senior Project Design Training Specialist, Sunpower Corporation	2023 – present
<ul style="list-style-type: none">- Conducts proper training for newly hired designers in the company.- Evaluates new product offerings, creates training materials and cascades training to the design team.- Develops process improvements that will help ensure the quality of the plans produced by the team.- Ensures that plans are compliant with adopted codes.- Develops training materials that will be the foundation of knowledge for both existing and new designers in the department.- Integrated a design checklist in the design tools used by the designers. Automated a visual checklist that will ensure all parts of the plans are checked.- Coordinates with US stakeholders for updates regarding products and installation guidance.	Binan, Laguna
Project Design Engineer, Sunpower Corporation	2022 – 2023
<ul style="list-style-type: none">- Manages the design stage of residential solar projects in the US.- Creates solar residential plans to be used in permitting and installation.- Ensures that the system designed is most efficient, with consideration of costs, production, and ease of install.- Ensures that designs adhere to the codes and standards adopted by different Authorities Having Jurisdiction in different states of the US, particularly on the east and west coast areas, including California and the high wind regions of Florida.	Binan, Laguna
Intern, Pilipinas Shell Petroleum Corporation	06/2019 – 07/2019
Tasked in scheduling preventive maintenance operations.	Batangas City
CAD Trainee, MIV Tech	12/2018 – 03/2019
Trained by a Japanese instructor in dimensioning technical drawings for CNC machining and fabrication.	Saitama Shi, Kita Ku Nara Cho 13- 10, Japan

Education

Bachelor of Science in Mechanical Engineering, University of Batangas	2015 – 2020
<ul style="list-style-type: none">- Cum Laude- Licensed	Batangas City

Certificates

Building Information Modeling for Architectural Modeling Autodesk Revit Architecture Course - 45 hours	2-Day Solar PV Installation Training March 11, 2023	Mathematical Thinking for Engineers (Application: Engineering Mechanics - Solids & Fluids) Advocacy Webinar	Computer-Aided Analysis and Synthesis of Mechanisms Training
Fundamentals of Gear Design Webinar - Gearhead.com.ph	Basic Occupational Safety and Health Training February 23 & 24, March 2 & 3	Safety Awareness Lecture/Seminar 2017 October 13, 2017	Philippine Society of Mechanical Engineers General Assembly 2018 - August 29, 2018
Philippine Society of Mechanical Engineers General Assembly 2017	Junior Philippine Society of Mechanical Engineers Batangas Chapter General Assembly 2018 - September 30, 2018	Brightspot Award - Company Award June 22, 2023	Most Efficient Training Specialist - Company Award July 12, 2023

Skills

Solidworks

Knowledgeable in 3D CAD and machine design. Proficient in 3D CAD softwares.

Revit

Took 45hr Autodesk Revit Training Course. Knowledgeable with Revit architecture, able to create house designs from floor plans.

Autocad

Experienced with 2D AutoCAD drafting, geometric dimensioning and tolerancing, excel block automation using VBA tools, and AutoCAD block creation.

Microsoft Essentials

Experienced in documentation, data analysis, presentation using PPT, Excel and automation using PowerBI.

Microsoft Excel

Using VBA coding to automate excel block selection for plans. Knowledgeable in userforms.

Drawing

Artist of different mediums for 10 years. Uses artistic ability to conceptualize and create designs with design intent in mind.

Blender

Learned 3D blender to practice 3D rendering. Knowledgeable in solid form modelling.

Fusion 360

Uses Fusion360 for hobby projects.

Declaration

I hereby certify that the above information is true and correct to the best of my knowledge and belief,



CATAPANG, RALPH ANDREI A.
Batangas City, 2021