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Education

TECHNICAL UNIVERSITY OF DENMARK (DTU)

2017- 2019

Kgs. Lyngby, Denmark

Bachelor of Science in Engineering, General Engineering (Future Energy specialization)

Thesis: Alternatives in coping with surplus renewable energy based on the case study of Ndeda mini-grid in Kenya

INSTITUTO TECNOLÓGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY (ITESM)

2014-2016

Puebla, Mexico

Completed 16 subjects towards Bachelor of Science, Engineering physics

Relevant Experience

Project Engineer at vertical farming start-up

July 2019 – September 2020

- Designed and built an automated prototype for aeroponic vertical system for growing leafy greens.
- Implemented sensors and data acquisition system (temperature, humidity, pressure).
- Optimized resources for optimal growth (water, fertilizers, electricity).

Astronomy/Spanish teacher at Kwong Chow School, Bangkok, Thailand

October 2022 – Present

- *Planned and delivered lessons for students at elementary and secondary levels.*

Physics I, Teaching Assistant at ITESM, Puebla, Mexico

January 2016 – May 2016

- Presented and explained mathematical and physics concepts to groups of 10-20 university students during office hours.

Real Estate, Puebla, Mexico

October 2020-September 2022

- Supervised the construction, design, and maintenance of residential houses and warehouses.
- Interacted with stakeholders and tenants as legal representative of the properties.
- Consultant for acquisition and sale of properties

Skills

Spanish – Native

English – Fluent (~C1/C2) (TOEFL iBT 108, April 2021)

German – Intermediate (~A2/B1)

Venetian – Native (spoken)

python for data analysis and automation

Arduino and MicroPython for prototyping (robots, sensors, motors, etc...)

Django

Data analysis tools: SQL, R, Tableau

Linux - Proficient

Professional Certificates

Google IT automation with Python
Professional Certificate
Google
Completed in July 2022

Google Data Analytics Professional
Certificate
Google
Completed in January 2022

Teach English to Speakers of
Other Languages (TESOL)
Arizona State University
Completed in June 2022