

Melvin COSTA



ABOUT ME

Creative and versatile nuclear engineer with a strong background in sustainability and climate change, passionate about driving innovation in emerging technologies. I have hands-on experience in the start-up sector, specializing in interdisciplinary collaboration, data analysis, visualization, and product development. My track record includes scientific research, design, and business development. I am eager to apply my analytical and problem-solving skills to build a globally impactful start-up through EF's Paris cohort.

CONTACT DETAILS

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📍 Stockholm

PERSONAL INFORMATION

Citizenship: **India**
Languages: **English** (C1/C2),
Swedish (beginner)

SKILLS

- Python, Matlab, AutoCAD
- MS Word, Excel, PowerPoint
- Prototyping, Analytics
- Teamwork, Collaboration, Problem-Solving, EQ, Adaptable

EXPERIENCE

- Co-FOUNDER** at **EnvirOffset** **2024.03–2024.10**
◊ Developed a platform for selling diversified carbon credit portfolios, reducing investment risk for clients.
◊ Proceeds fund nature-based carbon capture projects that offset emissions and generate positive social and biodiversity impacts for local communities.
- STUDENT AMBASSADOR** at **KTH** (Stockholm) **2024.09–2025.06**
◊ Contact with prospective students, organised webinars and tours.
- RESEARCH INTERN** at **USP** (Fiji) **2023.05–2023.08**
◊ Conducted research, analysed experimental data and wrote a conference paper on "Performance of biodiesel in diesel engines."
- SERVICE ENGINEER** at **FSL** (Fiji) **2023.02–2023.05**
◊ Servicing and installation of electrical, plumbing and HVAC equipment. Produced comprehensive reports, estimates for tenders and logistics.
- DESIGN ENGINEER Self-Employed** (Remote) **2020.09–2021.08**
Worked as a freelance product designer and design engineer for startups.
◊ Designed modular and interchangeable spice dispensing system of the cooking robot for **Mechanical Chef**. ◊ Designed and developed wireless charging system and interface of smart bio-medical testing equipment for **Panorama Labs**.
- TUTOR** (part-time) **Self-Employed** (Remote) **2020.06–2022.07**
◊ Taught high school level maths for about 2 years for about 10 hours a week. Prepared teaching material and quizzes.
- CONSULTANT** at **Acernis** (Remote) **2020.04–2020.09**
◊ Worked on a pilot project for migrating traditional network maps into a GIS system for a telecommunications client in Malta.

EDUCATION

- MSc NUCLEAR ENERGY** KTH (Sweden) **Grad. Aug 2025**
Grade: 4.71/5
- BSc AEROSPACE ENGINEERING** TU Delft (NL) **Grad. 2019**
Grade: 7/10
- PG DIPLOMA CLIMATE CHANGE** USP (Fiji) **Grad. 2022**
Grade: 4.33/4.5

AWARDS

- IDEATE 2024 First prize** (EnvirOffset) **May 2024**
◊ Won 1st place among 10 teams in this 3 month Stockholm School of Economics entrepreneurship program, supporting student-led solutions to global challenges. Selected amongst 40 participants (out of 1000+ applicants).

PUBLICATION

- ◊ Costa, Melvin, et al. "Variation of power output from an OTEC power plant based on long-term sea surface temperature data analysis." *ASME IMECE*. Vol. 86687. ASME, 2022.