

IVAN DDAMBA

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PERSONAL PROFILE

Results-driven Junior Sustainability Engineer with MSc in Sustainable Energy Engineering and hands-on experience in building energy modelling, thermal analysis and energy efficiency auditing. Proficient in IES VE, BER assessments, NZEB retrofit strategies and compliance with Irish building regulations (Part L/F). Completed QQI Level 6 course, pursuing SEAI registration. Fully eligible to work in Ireland and open to relocate to Dublin to meet project requirements.

SKILLS

- **Energy Modelling:** IES VE (thermal simulation, TM52, Part L), Energy load calculations
- **Building Compliance:** NZEB, BER Assessments (NEAP, DEAP), Part L & Part F
- **Retrofit & Sustainability Strategy:** Decarbonisation planning, Heat pump & PV system sizing
- **Environmental Analysis:** Daylight simulation, overheating analysis, ventilation studies
- **HVAC & MEP Coordination:** Load calculations, system performance analysis
- **Software Proficiency:** IES VE, DEAP, NEAP, AutoCAD, Revit MEP, MS Excel
- **Reporting & Communication:** Technical report writing, energy audit documentation, stakeholder presentations
- **Regulatory Frameworks:** BREEAM/LEED awareness, FIDIC documentation review

EDUCATION

Master of Science in Sustainable Energy Engineering
South East Technological University, Ireland | Graduated: 2024 | 2:1 Honours

Bachelor of Engineering in Mechanical & Manufacturing Engineering
Kyambogo University, Uganda | Graduated: 2016 | 2:1 Honours

KEY PROJECTS & ACADEMIC WORK

Thermal & Energy Load Modelling for Schools and Offices

- Simulated and analysed thermal and ventilation models using IES VE
- Simulated Part L and TM52 compliance, daylight and natural ventilation assessments
- Generated reports and proposals for sustainable design improvements

NZEB Retrofit Design – TSSG Building, SETU

- Led a team in designing retrofit strategies for HVAC and ventilation upgrades
- Performed heating/cooling load calculations, system sizing, and cost-benefit analysis
- Focused on carbon reduction and NZEB compliance

BER Assessment & Retrofit Strategy

- Performed BER assessments and energy upgrade proposals to improve building BER ratings using DEAP/NEAP methodologies
- Conducted an energy audit and retrofit plan for Waterford City Library, integrating PV systems, LED lighting, and heat pump upgrades.

PROFESSIONAL EXPERIENCE

Junior Engineer | PrimeCool Air Conditioning Co. Ltd, Uganda | Jan 2016 – Dec 2017

- Supported HVAC load calculations and system design reports.
- Coordinated site assessments and tender documentation for HVAC projects.

Mechanical Engineer | Uganda Energy Credit Capitalization Company, Uganda | Jan 2018 – Aug 2023

- Led feasibility studies and installation of solar PV/off-grid solutions
- Supported sustainability reporting for World Bank funded energy projects
- Reviewed project tenders and contract documentation aligned with FIDIC and international standards.

CERTIFICATIONS & TRAINING

- Completed QQI Level 6 Training, pursuing SEAI registration
- NZEB Retrofit & Fundamental Awareness – WWETB
- REVIT MEP- HVAC Systems
- Member of Engineers Ireland & CIBSE

ADDITIONAL INFORMATION

- Full time work eligibility in Ireland (Stamp 1G)
- Irish Learner Permit – progressing towards full Irish driving License
- Willing to relocate to Dublin for office and site-based work

REFERENCES

Available on request