

Personal Details

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Career Aim: I am keen to begin a career in English teaching and work closely with a team of highly experienced professionals so as to enable myself to further develop my skills in this area. I have a particular interest in languages and latin culture. Through university assignments and in the work place I have shown myself to be self-motivated, eager to learn and capable of working in a multidisciplinary environment.

Educational History

Qualification: MSc EUREC European Master in Renewable Energy **Result:** B+
Institution: Carl von Ossietzky University, 26129 Oldenburg, Germany.

Northumbria University, NE1 8ST, Newcastle upon Tyne, England.
Photovoltaic specialisation

Dates: October 2010 – Dec 2011.

Qualification: BSc Analytical Science **Result:** 2:1 **Position in class:** 1st
Institution: Dublin City University, Glasnevin, Dublin 9, Ireland.
Dates: September 2005 – 2009.

Work Experience

Norut, Lodve Langes g 2, Narvik, Norway

Position: Photovoltaic power plant project manager.

Duration: June 2011 – December 2011

Duties: Design and construction of a 20 kW_p photovoltaic tracking system in Pitea, Sweden. The system was designed to investigate solar module and tracker performance at high latitudes and in cold climates and was the focus of my master thesis. Photovoltaic system performance simulations using PVsyst and PVGIS.

IMEC, Kapeldreef 75, 3001 Leuven, Belgium

Position: Photovoltaic research assistant.

Duration: July 2009 – June 2010.

Duties: Investigation of silver screen printing pastes for epitaxial silicon solar cells. Solar cell processing and characterisation in a laboratory and clean room environment.

Niche Generics, Baldovle Industrial Estate, Dublin 13, Ireland

Position: Quality control analyst.

Duration: April 2008 – September 2008.

Duties: Testing of pharmaceuticals using dissolution baths and HPLC systems.

Transferable Skills

Languages: English (Expert), Gaelic (Expert), Spanish (Intermediate) and French (Intermediate).

Technical Skills

- Participated in the construction of a 20 kW_p solar tracking power plant which included module mounting, tracker system assembly, module string connections, installation of inverter and monitoring and data acquisition system.
- Accomplished user of many tools used in solar cell processing such as screen printers, oxidation furnaces, diffusion furnaces, lasers, electrical probes, plasma etcher, lithographic tools (spinners and mask aligner) and solar simulator.
- Encountered and successfully overcome many technical obstacles in both the workplace and the University research laboratory including trouble-shooting problems with solar cell processing equipment and High Performance Liquid Chromatography (HPLC) systems.

Analytical Skills

- Successfully designed a medium sized photovoltaic power plant which enabled the simultaneous investigation of different types of solar module technologies and tracking system performance in northern latitudes and cold climates.
- Proven myself in the professional environment to be accurate and careful when performing tests, within time limits and with minimal error.
- Competently interpreted and evaluated solar cell experimental data. Presented experimental results and conclusions in a clear and concise manner.
- Successfully completed to a high standard, many laboratory modules as part of my undergraduate and post graduate degree programs. Displayed excellent report writing skills.

Team Skills

- Directed a team of electricians, heavy machinery operators and technicians for the efficient and safe construction of 20 kWp solar tracking power plant. Helped to resolve problems and unforeseen events to ensure the timely completion of the project.
- As a member of the Thin Film Epitaxial Silicon Solar Cells team, carried out experiments on front side metalisation of epitaxial solar cells. In parallel, aided in processing of other epitaxial experiments investigating designs such as selective emitter rear emitter cells. Presented and discussed experimental results with colleagues.
- During an international field trip, participated in an environmental study of air and water quality in the city of Gdansk, Poland. This included decision making, task assignment, water sampling, air sampling. The team quantitatively determined and reported on the pollution levels in the water systems and air of the city.

Test line Environment

- Principal role in the design and construction of a 20 kWp solar tracking power plant under tight time and budget constraints.
- Competently carried out solar cell experiments which achieved good results and high efficiencies.
- Successfully carried numerous tests on solid dose pharmaceuticals and raw materials with high efficiency, accuracy, care and with minimal error in a highly regulated environment.
- Present during laboratory audits from the Irish Medical Board, when working as a member of the quality control team at Niche Generics Ltd. Proven capability of working effectively while being observed and when under the pressure of deadlines.

Hobbies and Interests

- I enjoy listening to and playing music. I have played the guitar for over 10 years and I can also play the harmonica. Regularly attend concerts and live performances of artists that I enjoy.
- I participate in sports such as football, rock climbing, snowboarding, surfing and cycling.
- I really like to travel and experience different cultures. I have been lucky enough to continue my education and gain experience by working and studying in several different countries. I like adapting to new environments and have an interest in languages.

References: Available on request.