

ERIC ASARE

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EXPERIENCE

Mar 2019 - Nov 2020

MATERIALS DEVELOPER, D30

- Lead assigned material development & innovation projects from initial research & feasibility studies through lab scale development to final production implementation following the structure laid out in the Stage Gate process for materials development.
- Work with the Line Manager, Program Management team to ensure projects are kept on time and to budget, assessing and overcoming project risks and other potential causes of delay or cost overrun.
- Maintain an up to date awareness of advances in polymer science and an in-depth knowledge of the latest competitor prior art related to actively generate innovative ideas and solutions to progress business opportunities.
- Support D3o production factories in China and their partner brands factories around the world by providing technical help and setting them up for production of new products.
- Ensure policies, procedures and documentation relating to materials development are prepared and maintained at the level necessary to satisfy ISO 9001 and customer standards.
- Actively seek continuous improvement in the team including process', quality, and testing capabilities necessary to maintain D3O's position as the industry leader.
- Ensure maintenance and safe use of all processing and analytical equipment (i.e. PU machines, FTIR, KF, etc.) and testing equipment required to run a material development program.

SEPT 2015 – JUL 2018

INNOVATION SCIENTIST, ALTRO LTD

- Responsible for finding an alternative material to replace PVC for flooring application.
- Worked and researched the latest innovations in polymers as a material and their processing techniques and where these advancements can be applied within in the company.
- Liaising with external companies from universities such as Cranfield and University College of London (UCL), research institutes such TWI and additive companies to work on solutions to current problems and improve current products.
- I was also responsible for training new employees on (Instron) mechanical testing machine DSC and FTIR machine.

MAR 2015 – JUN 2015

POST-DOCTORAL RESEARCH ASSISTANT, QUEEN MARY UNIVERSITY OF LONDON

- Researched on a portable miniature sensor device for electrochemical measurements.
- Helped come up with research topics and supervised undergraduate final projects.

EDUCATION

APRIL 2016

PHD MATERIALS SCIENCE, QUEEN MARY UNIVERSITY OF LONDON

PHD TITLE: Advances on the pyroresistive behavior of conductive polymer composite

Research Experience: Preparation of conductive polymer composites via extrusion or solution method for use as self-regulated heaters.

Success: Developed a composite that had a good positive temperature coefficient effect leading to a KTP post-doc position, PhD and a patent.

Supervisory Experience: Supervised one Post-doc, one PhD student, one Master student and three undergraduate students.

JUN 2010

MENG MATERIALS SCIENCE, QUEEN MARY UNIVERSITY OF LONDON

Degree class: Upper Second Class

Research Title: Depth profile of polyurethane coatings using Photoacoustic IR Spectroscopy

JUL 2005

A-LEVELS, LAMBETH COLLEGE

Chemistry, Maths and Physics

SKILLS

Composite preparation: Preparation of composite by melt extrusion and solution method. Hot-pressing samples into different shapes for characterization.

Composite Characterization: Sample preparation and characterization for SEM, DSC, FTIR, DMA, TGA, TMA and two-point probe thermo electrical testing.

HOBBIES

In my spare time I volunteer as a STEMNET ambassador and spend most of my time on science outreach programs to help inspire secondary school students to take up careers in STEM.

REFERENCE

Available upon request.