

Elizabeth Jacob Thekkethottiyil
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Research Experience

March 2016-date : Research Assistant for a QU internal research project, working with nanopolymers for various applications.

June 2015-March 2016 : Research Assistant for a QU internal research project, working with synthesis and characterization of functionalized polymers for water treatment applications. Also worked on testing and characterization of self-healing coatings and nanofiber filters.

December 2014 - June 2015 : Research Assistant for Center of Advanced Materials, Qatar University, working with piezoelectric nanocomposites.

Key skills developed:

- ❖ Preparation of nanofibers and nanocomposites by electrospinning
- ❖ Sample preparation and tensile testing of thin films
- ❖ Sample preparation and execution of X-Ray Diffraction analysis
- ❖ Working knowledge of various instruments at CAM

Education Expansion

- ❖ Trained in using Origin software
- ❖ Materials Science and Engineering Symposium 2015
- ❖ Training in Health and Safety Management of Hazardous Materials and Waste

September 2013- September 2014: Research Assistant for College of Engineering, Qatar University, working with date palm fiber composites with different polymeric materials.

Key skills developed:

- ❖ Gained experience in research strategy and publishing procedure
- ❖ Literature review on state of the art, date palm fiber research.
- ❖ In charge of procurement of materials and equipment.
- ❖ Preparing composites using compression molding, extrusion as well as hand layup.
- ❖ Mechanical and morphological testing of composites.
- ❖ Preparing and presenting progress reports, presentations.

Education expansion

- ❖ Training Program: *Scientific Writing for Publication* By OFID. Facilitator: Dr. Nancy Allen
 - ❖ Training Program: ScienceDirect Training. SciVerse & Scopus By QU library
 - ❖ Application oriented training program on Scanning Electron Microscope (Aspex Express SEM)
 - ❖ Materials Science and Engineering Symposium 2014
 - ❖ Innovation Strategies for the International Fiber Sector Seminar at Coir Kerala 2014
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Educational Qualification

Graduate with B.Tech in Polymer Engineering from Mahatma Gandhi University. Kerala, India.

Undergraduate Project

Study of Reclamation of Natural Rubber from vulcanized latex and application of reclaim in blends with Nitrile Rubber in collaboration with Hindustan Latex Research Centre, Trivandrum, Rocket Propellant Plant of Vikram Sarabhai Space Centre, Trivandrum & The Rubber Board of India Research Facility, Kottayam, Kerala, India.

Subjects of undergraduate study:

Plastic Science & Technology, Polymer Science & Technology, Blends & Composites, Rubber Technology, Latex Technology, Adhesive Science & Technology, Tyre Technology, Fibre Technology, Polymer Machinery, Moulds And Dies, Product Design & Testing.

Computer Skills:

Diploma in Computer Applications from APTECH.

Programming : HTML, C, C++

Operating systems : Windows, Linux, Mac OS X.

Application software : RDBMS (VB with MS Access).

Scientific software : **Origin**, Omnic and ProjeCAD.

Good experience in working with Microsoft Word, Microsoft PowerPoint, and Microsoft Excel.

Soft Skills:

Excellent skills in communication and collaboration.

Commendable ability in motivation and effective teamwork.

High creativity and resourcefulness.

Excellent language fluency in **English, Malayalam and Hindi**.

Holder of Qatari driving license.

References available on request.
