

Remiya Roy

Second Year postgraduate (MTech)
Department of Materials Engineering

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Education

Degree	Institution	CPI/%	Year
MTech	Indian Institute of Technology Gandhinagar	8.33	2020-Present
BTech	Government Engineering college, Thrissur Kerala	8.71	2016-2020
Class XII	Sacred Heart Convent Girls H.S.S Thrissur Kerala	97%	2013-2015
Class X	Holy Family Girls H.S Thrissur Kerala	10.0	2012-2013

Internships

- Internship at Apollo Tyres Ltd Perambra , Chalakudy, Kerala (July 2017)
- Internship at Steel and Industrial Forgings Limited Thrissur, Kerala (July 2019)

Projects

- **MTech Project: Synthesis of Amorphous Titanium dioxide nanoparticles/film and its applications, IIT Gandhinagar** Titanium dioxide nanoparticles which are amorphous/anatase in nature are prepared using different precursors using changing various parameters. Studies on application mainly in the field of antibacterial studies and different coating for enhanced properties.
- **BTech Project: Die Failure Investigation in Forging Process (Steel and Industrial Forgings Ltd. (SIFL), a public sector undertaking fully owned by Government of Kerala)** Industrial Project: The objective of this failure analysis project was to investigate and realize the mode and cause(s) of premature failure of a forging die made of DIN 1.2714 in a hot forging process. The potential cause of premature die failure, was narrowed down to either the imperfections in operational conditions at the time of forging, or due to the presence of any defects while the die block was manufactured. The causes of failure indicate that all stages from design to field applications are equally important for the long-term performance of dies.
- Waste management in cities (Design project as a part of course work in Undergraduate Program)

Positions of Responsibility

- Hospitality coordinator for technical fest at Government Engineering College, Thrissur called DYUTHI.
- Coordinator of 'PROJECT EXPO' conducted at Government Engineering College, Thrissur as a part of technical fest called DYUTHI.
- Coordinator of multiple events conducted by Production Engineering Department during undergraduate program (Government Engineering College, Thrissur, Kerala)

Achievements

- University third topper in Production Engineering (APJ Abdul Kalam Technological University, 2016-2020)
- BTech Honours student
- Second runner up for the kick start competition (workshop on start-up) conducted by ISTE at GEC, Thrissur
- **Online certification courses:**
 - Completed 8-week course on Introduction to Machining and Machining Fluids by NPTEL, (IIT GUWAHATI).
 - Completed a 12-week course on Physics of Materials by NPTEL (IIT MADRAS)
 - Completed a 4-week course on Inspection and Quality Control in Manufacturing by NPTEL (IIT ROORKEE)

Skill Summary

- **Tools:** AutoCAD, CATIA V5, MS Office, Creo, Origin

Extra-Curricular Activities

- Crafts making ideas
- Dancing
- Drawing