

CURRICULUM VITAE

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PERSONAL INFORMATION

Date of Birth	12-06-1990
Nationality	Indian
Gender	Male
Marital status	Single

CAREER TARGET

Rubber enthusiast looking for technical challenges to deepen my knowledge & skill sets. I'm a professional on product innovation through thorough understanding of rubber manufacturing, raw materials, process & technology.

WORK EXPERIENCE

2014-2016	Professional Doctorate in Engineering (PDEng) , Elastomeric Technology & Engineering (ETE) department, University of Twente. - 2 year post masters research programme in association with a Dutch rubber recycling company, RUMAL. Research topic: Devulcanization of whole truck tire rubber
2011-2012	Design & Process Engineer in Fenner India- R&D oil seals division, India Responsibilities: <ul style="list-style-type: none">• New product design & development• Product re-engineering/ re-design• Process troubleshooting & rectification

EDUCATION

2014-2016	Professional Doctorate in Engineering (PDEng) in Elastomeric Technology & Engg. University of Twente , The Netherlands.
2012-2014	Masters in Rubber Technology (9.54 /10 CGPA, Gold medalist) Indian Institute of Technology- Kharagpur (IIT-Kgp) , India. Master thesis at Leibniz Institute of Polymer Science (IPF), Dresden, Germany.
2007-2011	Bachelors in Rubber & Plastics Technology (7.94/ 10 CGPA) Madras Institute of Technology, Anna University- Chennai, India.

AREAS OF INTEREST

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| <ul style="list-style-type: none">• Rubber compounding & processing• Rubber recycling | <ul style="list-style-type: none">• Smart elastomers• Product design |
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RESEARCH PROJECTS

PDEng (post-masters)	<u>Devulcanization of whole truck tire rubber</u> Chemical devulcanization uses devulcanization aids like disulfides or mercaptans, which are expensive & have a repellant smell. This project aims at the development of efficient & environmentally sound devulcanization processes for truck tire granulate on a pilot basis.
Masters	<u>A/ox intercalated Montmorillonites (MMT) as a dual functional additive for natural rubber</u> To control the release of antioxidant radicals to maintain effective concentration in the polymer matrix & in turn dispersing the nanoclay into the polymer matrix thereby increasing its reinforcement
Bachelors	<u>Design & study of ricinoleate based rubber process additives</u> Castor oil is mixed with a combination of metal oxides ($\text{ZnO} + \text{MgO} + \text{Ca}(\text{OH})_2$) in place of regular ($\text{ZnO} + \text{stearic acid}$) mixture. Tried to reduce the ZnO content in rubber due to its toxicity. And also replaced stearic acid, which is obtained animal fatty acids, by naturally occurring castor oil.

SKILLS

CAD Software	AutoCAD, Solidworks, Catia, Pro-E
CAE software	Moldflow & Moldex in plastics processing
Other software	Origin pro, MS office
Languages	English (fluent), Tamil (native), Dutch, French & German (Basic)
Presentation	“Screening of devulcanization aids for waste truck tire rubber” in Tire Technology Expo- 2016 in Hanover, Germany.
Organizational experience	<ul style="list-style-type: none">• Student coordinator for International Conference of Rubber & Rubber like Materials (ICRRM- 2013)• Head of student body association, Society of Plastics And Rubber Technologists (SPART) during 2010-2011.

ACHIEVEMENTS

2015	Best poster award for Technology in Dutch polymer Days (DPD-15) on “Process design for devulcanization of whole truck tire rubber”
2014	Raghupati Singhania gold medal (for all round performance- sports & academics) & Incab Rubber prize (highest CGPA in Masters) from IIT-Kharagpur, India.
2013	DAAD- IIT sandwich scholarship to do Master thesis at Leibniz-Institut fur Polymerforschung (IPF), Dresden, Germany.

PERSONAL INTERESTS

Sports	Cricket, volleyball, kabaddi (Indian rugby)
Culinary	South Indian cuisines & hosting dinner
Others	Reading about International relations, dancing & fitness freak

REFERENCES

References are available upon request.