

KOTA MUKESH RAJ

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CAREER OBJECTIVE

To Provide sustainable and reliable solutions to the requirements of society through Research and innovation by working in a reputed Indian university and contributing my services to the country's economic growth.

ACADEMIC BOARD

Education	Year of passing	Institution	Aggregate (%)
M. Tech (Thermal Science)	2020	IIT Bhubaneswar	89.1
B. Tech (Mechanical Engineering)	2016	NIT Raipur	80.8
Class XII	2012	Narayana College	97.5
Class X	2010	Sarada English Medium School	86

WORK EXPERIENCE

- ❖ Currently working as an application engineer in the Renewable Energy Business unit at **Toshiba-Mitsubishi Electric Industrial Systems Corporation**. My role at TMEIC includes submitting market updates about the solar industry to my team, filling the request for quotations from customers, Automation of technical graphs, and providing Root cause analysis on ventilation, humidity, and mechanical issues of Solar inverters commissioned at different locations across India. (*January 2021 – present*)

TRAINING AND PROJECTS

- ❖ Project on “**Jet deflection by two side-by-side arranged hydrofoils pitching in a quiescent fluid**”. This project aims to find the jet deflection angles with respect to the phase difference between the foils. (*June 2019 – August 2020*)
- ❖ Experimental studies on **Jute fiber Composite materials** to evaluate the **Tensile strength** for different parameters. We prepared a Composite material by considering different compositions using jute fiber, Epoxy resin, and hardener and thereby conducted the testing using the universal testing machine. (*July 2015 – May 2016*)
- ❖ Two weeks of vocational training to understand the challenges that come during servicing of passenger vehicles at **Hyundai Pvt. Ltd.** in Raipur, India. (*May 2015*)
- ❖ Four weeks of industrial training in engineering shops and a foundry department that manufactures products essentially using the casting process at **Lalitha Metals Pvt Ltd.** in Visakhapatnam, India. (*May 2014*)
- ❖ Participated in district-level Science fair competition by building a prototype on “**Energy Extraction from Biomass**” during schooling and grabbed 4th position. (*November 2010*)

PUBLICATIONS

- ❖ “Jet deflection by two side-by-side arranged hydrofoils pitching in a quiescent fluid”
AIP Advances **10**, 105128 (2020); <https://doi.org/10.1063/5.0026263>

SKILLS

Design Software: AutoCAD, Design modeler (Ansys)
Numerical Simulations: Ansys Fluent
Post Processing Tools: CFD Post, Tec plot, Grapher, MATLAB
Other: MS-Office (Word, Excel, PowerPoint)

ACADEMIC ACHIEVEMENTS

- ❖ Secured **458** rank in the state engineering entrance exam **EAMCET** out of 0.3 million applications in 2012.
- ❖ Secured **9086** rank in national engineering entrance **AIEEE** out of 1 million applications in 2012.

EXTRACURRICULAR ACTIVITIES

- ❖ Represented my college at a national level competition in volleyball and played the role of libero. (2012 to 2016).
- ❖ Played Cricket and Badminton at Intra College competition.
- ❖ Attended various workshops in Entrepreneurship, Green projects, Social Responsibilities, etc. conducted by the college during under graduation.
- ❖ Worked as a Coordinator in school and college sports clubs.

PERSONAL DETAILS:

Date of birth: 19 June 1995
Father's name: Kota Suri Babu
Mother's name: Kota Satya Kamala
Languages Known: Telugu, English, Hindi, Japanese (N5 level)

DECLARATION:

I hereby confirmed that the above information furnished is true to the best of my knowledge and would be held responsible for any discrepancy.

PLACE:

DATE:

KOTA MUKESH RAJ