

# Nikhil V Giri

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## OBJECTIVE STATEMENT

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To gain extensive knowledge and achieve excellence, through experimentation and research in Mechanical Engineering.

## EDUCATION

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**University of Waterloo, Waterloo, ON N2L 3G1**  
**Doctor of Philosophy in Mechanical and Mechatronics Engineering,** **Expected 2026.**

**BMS College of Engineering, Bangalore, 560019**  
**Bachelor of Engineering in Mechanical,** **September 2016 - August 2020.**  
**CGPA: 8.79 (scale of 1-10, 10 as the highest grade)**

## INTERSHIPS/VOLUNTEER WORK.

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**Toyota Industries Engine India Private Limited, Bangalore, 560105**  
**Spare Parts Management (Maintenance Department),** **July 2018 – August 2018.**

- Monitored, Organized and Maintained enough spares for Assembly Line Machines.
- Implemented the Toyota Principles (Kaizen, Kanban, 5S, Genchi Genbutsu) into Spare parts maintenance.
- Generated reports and executed duties assigned by the supervisor.

## ACADEMIC PROJECTS

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- **Experimental investigation into Thread formation during drop generation by Non-Newtonian Viscoelastic fluid at T junction generators,** **Ongoing**

The project aims to perform a systemic investigation into Thread formation by Non-Newtonian Viscoelastic Tear films and determine its variation with changes in Width, Aspect ratio of the microchannel.

- **Stall analysis of a wing equipped with Vortex generators using Wind tunnel,** **September 2019 - August 2020.**

The Project performs an Experimental, Numerical analysis to compare the difference in stall characteristics of a wing operating in Low Reynolds Number under two conditions: With Vortex Generator and Without Vortex Generator.

- **Digital Visitor Counter,** **March 2018 – August 2018.**

A Logic circuit which counts the number of People entering a hall or the number of products manufactured in an industry precisely.

- **Hydraulic Pump,** **September 2017 – January 2018.**

A positive displacement machine converting Mechanical action into Hydraulic Energy and works on the principle of Pascal Law.

## UNIVERSITY SERVICES/ACTIVITIES

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- Successfully executed the role of an Event Coordinator for the National Level Annual Tech Symposium held at BMS College of Engineering during “Phaseshift-2018” event.
- Served as the Senior Coordinator for “Dynamech” event held at BMS College of Engineering.
- Participated in a workshop conducted by “Planet Aerospace” on “Design and Development of Nano satellite”.

## ONLINE COURSES/MOOC's

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- **Introduction to Machine learning, Coursera** **Ongoing.**

This course is offered by Duke University and instructs the foundation of Machine Learning. Further, it educates on the way complex models can be used to solve various Industrial problems.

- **Sports and Building Aerodynamics, Coursera** **April 7, 2021.**

An advanced level course offered by Eindhoven Institute of Technology, instructing the basics of Computational Fluid Dynamics along with its application in Sports and Building Aerodynamics.

- **Programming for Everybody, Coursera** **January 2, 2021.**

Offered by the University of Michigan, this program instructs the basics of python with the aid of tools such as loops, functions and many more.

## SKILLS

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- **MATLAB.**
- **Microsoft Excel.**
- **Solid works.**

## LANGUAGES

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- **English.**
- **Kannada.**

## HOBBIES

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- **Amateur Astronomy.**
- **Cricket.**

## DECLARATION

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I hereby declare that the above information is true to the best of my knowledge.

Place: Waterloo.

NIKHIL V GIRI  
(Signature)