

# Nikhil Kashinath Nilange

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Date of Birth: April 24<sup>th</sup>, 1992

Passport no.: P2469041



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## CAREER OBJECTIVE

To establish myself as a successful Chemical Process Engineer with excellence in terms of achievement, creativity and dedication so as to join the organization, which will provide the opportunities to learn, enhance and implement my knowledge and skills for contributing to growth of the organization.

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## EXPERIENCE

Worked as an **Assistant Professor** in the Department of Chemical Engineering, MGM CET, Kamothe, Navi Mumbai, from January 2017 to 30<sup>th</sup> June 2018.

### Subjects Taught:

- Chemical Engineering Thermodynamics I & II
- Engineering Chemistry –II
- Advanced Separation Technology
- Modelling & Simulation (Lab Course)

**Laboratory Developed:** Project Laboratory (Department of Chemical Engineering)

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## ACADEMIC QUALIFICATIONS

### 2016 M. Tech. CHEMICAL ENGINEERING

BRACT's Vishwakarma Institute of Technology, Pune. (Autonomous College affiliated to Pune University)

Department of Chemical Engineering

**CGPA: 9.77/10 OR Equivalent Percentage: 87.93**

### 2013 B.Tech. CHEMICAL ENGINEERING

Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad (Deemed University).

Department of Chemical Engineering

**CGPA: 7.32/10 OR Equivalent Percentage: 66.54**

### 2009 H. S. C

Dayanand science college, Latur, Maharashtra.

**PERCENTAGE: 71.00 %**

### 2007 S. S. C

Shri Bankatlal Lahoti English School, Latur, Maharashtra.

**PERCENTAGE: 80.00 %**

## ACADEMIC PROJECTS

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### 1. Title: A comparative Evaluation Of Iterative And Non-Iterative Recursive Bayesian Filters

**Supervisor:** Prof. Sachin C. Pathwardhan, Department of Chemical Engineering, IIT Bombay.

**Place of work:** Automation lab, Chemical Engineering Department, IIT Bombay.

**Software:** MATLAB<sup>®</sup>.

### 2. Title: Augmentation of heat transfer in turbulent flow using twisted tapes

**Supervisor:** Prof. P V Vijay Babu Pinjala, Head, Chemical Engineering Department.

**Place of work:** Chemical Reaction Laboratory, Department of Chemical Engineering, Dr. BATU, Lonere.

#### Oct 2105 – Jul 2016

The aim is to comparatively evaluate the iterative versions of the Extended Kalman Filter, Unscented Kalman Filter and the Ensemble Kalman Filter in order to develop more robust methods for the estimation of highly nonlinear processes. In this work the six algorithms are implemented on two systems, viz. a simulated Quadruple tank model involving a single rate strategy and solution polymerization of styrene in a Continuously Stirred Tank Reactor (CSTR) uses multi rate strategy. Gaussian white noises are implemented in the inputs of both the systems. All the Filters are compared on the basis of Root mean squared estimation error and the computational time requirements of the Filters.

#### July 2012 – June 2013

The project work shows the results obtained from experimental investigations of the augmentation of turbulent flow heat transfer in a horizontal tube by means of varying width twisted tape inserts. Experimental investigations were conducted to evaluate heat transfer, friction factor characteristics for full length pin inserts of different pitches for water as test liquid in a square duct under uniform wall temperature condition.

## MINI PROJECT

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### Title: STATE ESTIMATION USING EXTENDED KALMAN FILTER

- The Extended Kalman filter is very powerful in several aspects it supports estimations of past, present, and even future states, and it can do so even when the precise nature of the modeled system is unknown, This project work provides simulation results that show its efficiency and performance.

## TECHNICAL SEMINAR

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### Title: Overview of Kalman Filtering

- This seminar provides us an understanding of all the Kalman filtering Techniques viz. Extended Kalman Filter, Ensemble Kalman Filter, etc. It also highlights its advantages and disadvantages so that one could choose amongst various filtering techniques according to his requirements.

## INTERSHIPS

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June 2012

**Privi Organics Limited, Mahad MIDC, Maharashtra**

15 days

## TECHNICAL SKILLS

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Packages: MATLAB<sup>®</sup>, Aspen Plus, MS office, HTRI, Polymath, Latex.  
OS Windows and Linux (Ubuntu).

## EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

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**GATE** *Qualified, 2014*

Score: 378, AIR 2246

Awarded fellowship for 2 years during M. Tech. as per AICTE norms.

**ABHIYANTA VASANT** *First prize, One Act Play, 2011-2012*

Annual cultural festival of Dr. BATU, Lonere.

- Student member of Chemical Engineering Student Association (**ChEA**). Since 2009.
- Active Coordinator of **Chemfraternity 2012** – A National Level Chemical Festival organized by Department of Chemical Engineering, Dr. Babasaheb Ambedkar Technological University. April 2012.
- Active participation in social annual Gathering and Sports in School and College.

## PERSONAL DETAILS

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I love being passionate about my work because the joy of winning and getting recognition of my efforts is simply unmatched. I am fond of traveling and exploring places. I always believe in being straightforward without formalities, in having courage to call a spade a spade and in appreciating people for their good deeds.

- **Personal skills:** Comprehensive problem solving abilities, excellent verbal and written Communication skills, Ability to deal with people diplomatically, Willingness to learn, Team facilitator.
- **Languages known:** English, Hindi, Marathi, Kannada (Mother tongue).
- **Hobbies:** Movies, Music, Travelling, Reading.
- **Permanent Address:** Nikhil Kashinath Nilange,  
S/o Kaskinath N. Nilange,  
Pragati Nagar, Khopegaon Road,  
Near “Educhrist” School,  
LIC Colony, Latur. (413512)

## DECLARATION

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**I hereby declare that the information given above is true and correct to the best of my knowledge.**

Date:

Place:

**Nikhil K. Nilange**