





Akash Suriya Narayanan


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Nationality: Indian

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ABOUT ME

Chemical engineer and M.Sc. candidate with 2+ years of industrial experience in production optimization, CAPEX execution, and Aspen Plus process simulation. Proven track record in applying sustainable design to real industrial challenges, enriched by multicultural project collaboration across five European universities.

EDUCATION AND TRAINING

30/09/2024 - CURRENT Padua, Italy

Master of Science in Chemical and Process Engineering University of Padua

Relevant coursework: Multiphase Thermodynamics, Separation Unit Operations, Process Design, Process Fluid Dynamics and Simulation, Risk and Safety Analysis, Machine Learning for Process Engineers

Website <https://www.unipd.it/en/> | Level in EQF EQF level 7

01/08/2018 - 08/09/2022 Thanjavur, India

Bachelors of Technology in Chemical Engineering SASTRA University

Website <https://sastra.edu/> | Level in EQF EQF level 6

WORK EXPERIENCE

Carborundum Universal Limited Chennai, India

Business or Sector Manufacturing | **Department** Abrasive division | **Website** <https://www.cumi-murugappa.com/>

Executive

24/08/2022 - 24/08/2024

- Headed the production of hot press resin snagging wheels in the abrasives division, increasing production value by 20%
- Proposed and secured approval for a huge investment brownfield project increasing production capacity through a comprehensive report

IChE Students' Chapter SASTRA Thanjavur, India

Website <https://sites.google.com/a/sastra.ac.in/iicheschap/>

Chairperson

01/08/2021 - 01/08/2022

Event management & leadership skill

PROJECTS

17/03/2026 – 09/05/2026

MVR Distillation Column — Ethanol Purification

Aspen Plus simulation and techno-economic assessment of MVR-based distillation for industrial decarbonization.

30/09/2025 – 18/02/2026

IBPE Plant Conceptual Design and Simulation

Aspen Plus-based design and techno-economic evaluation of a 5,000 t/y IBPE production process.

09/2023 – 05/2024

Automated Power BI Dashboard for Streamlined Operations Across Multiple Locations

Developed dashboard-driven business intelligence solutions for operational insights.

01/08/2021 – 01/12/2021

CFD study on flow through single-holed orifice in series

CFD analysis of orifice meter flow to evaluate pressure profiles, model accuracy, and cavitation potential.

SKILLS

SOFTWARE

ANSYS fluent | Aspen Plus and PROII | MINITAB software | Microsoft PowerBI | Microsoft Office

OTHER SKILLS

Six Sigma | Quality Function Deployment | Critical thinking | Adobe Photoshop, Illustrator & PremierePro | 7 QC Tools

PROGRAMMING

MATLAB | C,C++,C Programming | VBA - Excel

HONOURS AND AWARDS

20/06/2024 Carborundum Universal Limited

Star of the Quarter FY24-Q2

LANGUAGE SKILLS

MOTHER TONGUE(S): Tamil

Other language(s):

English

Listening C2

Reading C2

Writing C1

Spoken production C1

Spoken interaction C1

Hindi

Listening B1

Reading B2

Writing A2

Spoken production A1

Spoken interaction A1

Italian

Listening A1

Reading A1

Writing A1

Spoken production A1

Spoken interaction A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user