

Ravi Vignesh Seker

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329 W McMillan Street, Apt 2
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Education

- **Bachelor of Science in Mechanical Engineering** Class of 2020
University of Cincinnati, Cincinnati, Ohio GPA – 3.47/4
- **High School Diploma** Class of 2015
Colombo International School GPA – 3.8/4

Work Experience

Imperial College Centre for Engagement and Simulation Science London, U.K. *May 2018– August 2018*
Research Intern

- Assisted researchers in department with focus on a fluid-operated soft robot used for medical procedures at Chelsea and Westminster Hospital.
- Designed and printed parts for soft robotics hardware with an emphasis on FEA analysis.
- Generated code for pump, solenoid valve and pressure sensor operation using Arduino.
- Studied research journals and papers to gather relevant information for soft robot projects.

Emery Oleochemicals Cincinnati, Ohio *January 2017- April 2017, August 2017-December 2017*
Mechanical Engineering Co-op

- Managed the corrective and preventative maintenance program for all pressure safety valves and rupture disks in compliance with ASME Boiler and Pressure Vessel Code.
- Assisted in the management of the site Process Safety Management (PSM) mechanical integrity program, including execution of frequency-based, equipment and piping visual inspections in adherence to OSHA, EPA, and SPCC requirements.
- Used ultrasonic technology (measurement and airborne acoustic) to test the functionality, structural integrity, and condition of pressure vessels, tanks, piping, steam traps, and other production equipment.
- Assisted in the reporting of Key Performance Indicator (KPI) metrics to facilitate continuous improvement in equipment reliability, maintenance efficiency, and utility consumption, including the creation of automated, Excel-based reports predicated on DCS/PLC meter data ported via PI/OSIsoft calculation formulas.

First Year Experience, University of Cincinnati *August 2016- December 2016, January 2017- April 2017*
Peer Leader

- Led and guided two learning communities of engineering students by helping them transition to college.
- Planned lessons for students focusing on a wide array of topics including campus life, professional etiquette and mental health.
- Hosted office hours for one on one advising sessions with freshman students.

Leadership, Awards and Skills

UC Global Scholarship Recipient

UC ROAR Tour Guide

Honors Ambassador and Honors Retreat Leader for University Honors Program

Member of Student Government Mentorship Program and Elections Facilitation Committee

Nyambogo Committee Project Designer, Engineers Without Borders

Member of College of Engineering and Applied Science Tribunal

Experience with MATLAB, SolidWorks, Fusion 360, AutoCAD, SAP, Arduino, Siemens NX and Microsoft Office Suite

Certified sit-down forklift and aerial lift driver

Trilingual with ability to speak English, Tamil and Sinhala in addition to proficiency in French

AVAILABLE FOR SPRING 2019 AND SUMMER 2019