

SURAJ PAWAR

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EDUCATION

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| PhD, Mechanical Engineering
The University of Texas at Austin | Expected 2023 |
| Master of Science, Mechanical Engineering , GPA 4.0/4.0
The University of Texas at Austin | May 2019 |
| Bachelor of Engineering (Honors), Mechanical Engineering , GPA 8.12/10
Birla Institute of Technology and Science, Pilani | August 2013 |

ACADEMIC EXPERIENCE

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| Graduate Research Assistant, The University of Texas at Austin | August 2018 - Present |
| <ul style="list-style-type: none">• Currently researching on physiological parameter estimation and control of Left Ventricular Assist Devices• Masters Thesis 'Recursive Estimation of Systemic Vascular Resistance Using Measurements From a Left Ventricular Assist Device' | |
| Teaching Assistant, The University of Texas at Austin | September 2017 - December 2018 |
| <ul style="list-style-type: none">• Served as Teaching Assistant for Dynamic Systems and Controls Lab• Conducted hands on lab experiments for senior undergraduate students on topics of Data Acquisition, LabVIEW, Dynamics and Controls | |

INDUSTRIAL EXPERIENCE

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| Medical Device R&D Intern, Windmill Cardiovascular Systems Inc | 06/2019 - 08/2019 |
| <ul style="list-style-type: none">• Built hardware in the loop systems for testing a Left Ventricular Assist Device• Developed LabVIEW based modular software architecture for distributed real-time control & monitoring of test stations• Developed PID controller for tracking reference pressure signals and rejecting disturbances | |
| Test Engineering Intern, Bose Corporation | 05/2018 - 08/2018 |
| <ul style="list-style-type: none">• Planned and executed end of life upgrade of an automated system for functional testing• Developed prototype low cost Bluetooth test solution that reduced component costs by 93 %• Developed software for automated conversion of production data sets from an older format to a newer format | |
| Applications Engineer, National Instruments | 09/2015 - 07/2017 |
| <ul style="list-style-type: none">• Supported Motion Control and Machine Vision applications for key academic and research accounts• Built a proof of concept on Active Vibration Control of a cantilever beam using real-time data acquisition and control for National Instrument's annual technical conference• Delivered presentations in national conferences on data acquisition and control using graphical system design | |
| Engineering Leadership Program, National Instruments | 07/2013 - 09/2014 |
| <ul style="list-style-type: none">• Increased customer success through world class phone and email support for LabVIEW, data acquisition and automated test applications | |

- Trained customers across India on LabVIEW, data acquisition, real-time control and monitoring and automated testing

PUBLICATIONS

E. S. Rapp, **Pawar, Suraj R.**, J. R. Gohean, E. R. Larson, R. W. Smalling, and R. G. Longoria, “Evaluating a hardware-in-the-loop system intended for testing ventricular-assist device control and sensing algorithms,” *American Controls Conference*, 2020 (accepted)

E. S. Rapp, **Pawar, Suraj R.**, J. R. Gohean, E. R. Larson, R. W. Smalling, and R. G. Longoria, “Estimation of systemic vascular resistance using built-in sensing from an implanted left ventricular assist device,” *Journal of Engineering and Science in Medical Diagnostics and Therapy*, vol. 2, no. 4, 2019

SKILLS AND CERTIFICATIONS

Programming	C/C++ (limited), MATLAB, NI TestStand, NI LabVIEW
Mechanical Design	PTC Creo, CATIA, AutoCAD
Others	Git, Technical Presentations and working in a team
Certifications	Certified Associate LabVIEW Developer