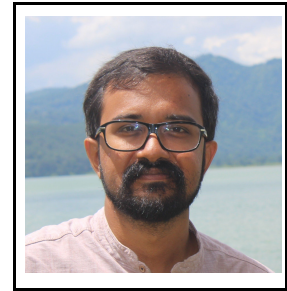




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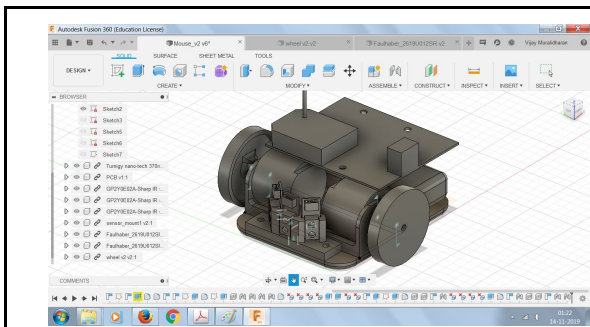


Research Interests

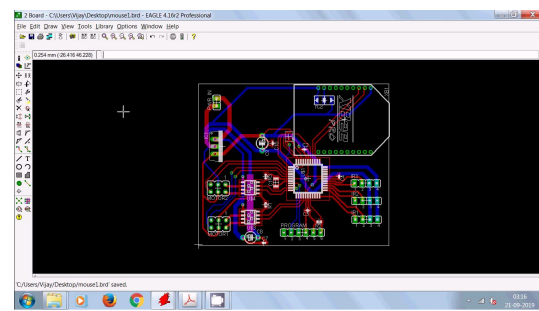
- Robotic Control
- Nonlinear Control
- Medical Devices
- Product Design

Brief Summary of Research

I'm interested in design, analysis and implementation of many aspects of robotics systems - electronics, mechanical, optics, imaging, mathematical modeling and control, and shape them towards products or open-source knowledge sharing.



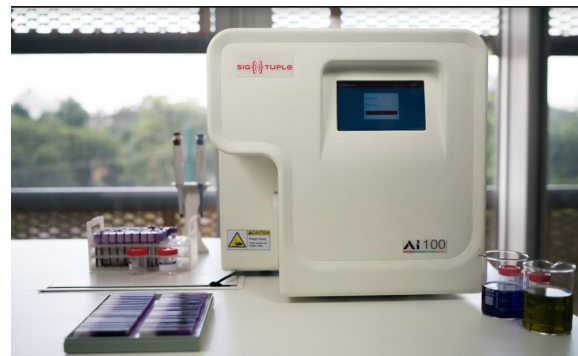
Robot Design Course



Robot Design Course



Past Robots



Medical Device

Recent Publications

- Vijay Muralidharan, and M. Reza Emami. "Rendezvous and Attitude Synchronization of a Space Manipulator." *The Journal of the Astronautical Sciences* (2019): 1-21.
- Zong, Lijun, M. Reza Emami, and Vijay Muralidharan. "Concurrent Rendezvous Control of Underactuated Space Manipulators." *Journal of Guidance, Control, and Dynamics* 42, no. 11 (2019): 2501-2510.
- Vijay Muralidharan, Arun D. Mahindrakar, and Akshit Saradagi. "Control of a Driftless Bilinear Vector Field on n-Sphere." *IEEE Transactions on Automatic Control* (2018).