

# Viswa Narayanan Sankaranarayanan

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## Research Interest

Adaptive control, aerial robotics, Euler-Lagrangian mechanics, adaptive mechanism

## Education

- 2019 – Present    **MS by Research in Electronics and Communication Engineering** IIIT, Hyderabad  
**GPA: 9.60 / 10.00**  
**Key Courses:** Robotics: Dynamics and Control, Advances in Robotics and Control, Mobile Robotics, Statistical Methods in AI, Topics in Applied Optimization.
- 2011 – 2015    **BE in Electronics and Instrumentation Engineering** SRM University, Chennai  
**GPA: 8.65 / 10.00**  
**Key Courses:** Control Systems, Modern Control Systems, Robotics and Automation, Industrial Instrumentation, Digital Signal Processing, Industrial Automation.

## Employment History

- 2019 – Present    **Research Assistant | IIIT, Hyderabad**  
Conducted research in control and path planning of aerial robots.
- 2015 – 2018    **Software Engineer | KPIT Technologies**  
Developed and integrated inter-ECU communication and diagnostic modules for automotive projects such as ADAS using AUTOSAR standards.

## Research Publications

### Conference Proceedings

- 1    **Sankaranarayanan, V. N.,** Roy, S., & Baldi, S. (2020). Aerial transportation of unknown payloads: Adaptive path tracking for quadrotors, IROS, 2020.

### Journal Articles

- 1    Roy, S., Baldi, S., Li, P., & **Narayanan, V.** (2020). Artificial-delay adaptive control for under-actuated euler-lagrange robotics. *IEEE/ASME Transactions on Mechatronics*, 2020.
- 2    **Sankaranarayanan, V. N.,** & Roy, S. (2020). Introducing switched adaptive control for quadrotors for vertical operations. *Optim Control Appl Meth.*, 2020.

### Work Under Review

- 1    Ganguly, S., **Sankaranarayanan, V. N.,** Suraj, B. V. S. G., Yadav, R., & Roy, S. (Eds.). (2021). *Efficient manoeuvring of quadrotor under constrained space and predefined accuracy*. IROS, 2021.
- 2    Suraj, B. V. S. G., **Sankaranarayanan, V. N.,** Yadav, R., Roy, S., & Krishna, K. M. (Eds.). (2021). *Elicopter: Feasibility study on mechanism and control of a novel reconfigurable quadcopter*. IROS, 2021.

## Skills

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Languages	Strong reading, writing and speaking competencies for English, Tamil.
Programming	C, C++, Python
Robotics Framework	ROS, Gazebo
Math Modelling	MATLAB
GUI Framework	Qt, QML
Communication Protocol	CAN, Ethernet

## Miscellaneous Experience

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### Awards and Achievements

- 2015 **RoboGames'15**, Won Bronze Medal in FreeStyle.
- 2019-2021 **IIIT Hyderabad research fellowship**, Awarded a fellowship to cover tuition and living expenses during my Masters.

### Teaching Assistant Experience

- 2020 **Robotics: Dynamics and Control** at IIIT Hyderabad.
- 2021 **Advances in Robotics and Control** at IIIT Hyderabad.

### Volunteering and Outreach

- 2020-Present Reviewer for IROS, ICRA and ACSP.
- 2013-Present Pedagogy developer for Talent Quest for India Trust.
- 2016-2018 Coordinator of Chhote Scientists, a CSR initiative by KPIT Technologies.

## References

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Available on Request