Curriculum Vitae Kenneth Goveas

Kenneth Goveas

Max Planck Institute of Animal Behaviour Am Obstberg 1, 78315 Radolfzell, Germany

github.com/Kenneth-Goveas

Interests

I am an engineer with a keen interest in dynamics and control. I'm particularly fascinated with model predictive control, and enjoy working on projects combining rigorous mathematical theory, simulation, and hands-on work with robots and electronics.

Work experience

Max Planck Institute of Animal Behavior (MPI-AB)

Since 2022

Coordinator for Tag Development.

Education

Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen Master of Science in Robotic Systems Engineering.	2023
Indian Institute of Science (IISc) Bangalore	2010

Indian Institute of Science (IISc) Bangalore Bachelor of Science (Research) in Physics.

2019

Projects

ICARUS CellTag: Lightweight low power cellular-network-based biologger Department of Migration, MPI-AB.	Since 2022
Learning the stage cost in model predictive control (M.Sc. thesis) Institute for Data Science in Mechanical Engineering, RWTH.	2022
Flight computer for automatic control of rocket air-brakes Mechanical Systems Division, Space Team Aachen e.V.	2021
Modelling and control of a quadrotor helicopter (B.Sc. thesis) Department of Physics, IISc.	2019

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Competitions

European Rocketry Challenge (EuRoC)

2021

As member of Space Team Aachen e.V., successfully launched student-developed rocket to 3 km apogee. Was responsible for development of automatic air brake controller.

Fellowships

Kishore Vaigyanik Protsahan Yojana (KVPY)

2015-2019

Indian national fellowship programme including stipend and contingency grant.

Technical skills

Programming and computing

C/C++, Python, Java, Bash, Mathematica, Makefile, CMake, Git, SQL, LATEX, Parallel computing, Networking and sockets, Linux programming.

Embedded systems and electronics

Printed circuit design, Zephyr RTOS, Raspberry Pi, AVR microcontrollers, Arduino.

Quantitative and analytical skills

Nonlinear dynamics and control, model predictive control, simulation of dynamic systems, probability and statistics, numerical optimisation, machine learning.

Relevant courses

Learning-based control, applied numerical optimisation, multi-body dynamics, machine learning, pattern recognition and neural networks, probability and statistics, statistical mechanics, ordinary differential equations, game theory.

References

Dr. Timm Wild

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Christian Fiedler M.Sc.

RWTH Aachen

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