Mayank Sewlia

	Website: www.sewlia.com Address: Gustav III:s Boulevard 2, 16972 Solna, Sweden Email: mayank.sewlia@gmail.com Citizenship: Indian
EDUCATION	PhD in Electrical Engineering KTH Royal Institute of Technology, Stockholm, Sweden, expected March 2025 Tentative Thesis: Control of Multi-robot Systems Under High-level Specifications Advisors: Prof. Dimos V. Dimarogonas and Prof. Christos K. Verginis
	Master of Science, Aerospace Engineering Technion-Israel Institute of Technology, Haifa, Israel, graduated June 2020 Thesis: Distributed Event-Triggered Control for Multi-Agent Systems with Second- Order Dynamics Advisor: Prof. Daniel Zelazo
	Bachelor of Technology, Aerospace Engineering Alliance University, Bengaluru, India, graduated June 2017 Thesis: Spacecraft Trajectory Optimization using Evolutionary Algorithms Advisor: Prof. Feroz Ahmed
JOURNALS	• Sewlia, M., Verginis, C.K. and Dimarogonas, D.V., 2023. MAPS ² : Multi-Robot Anytime Motion Planning under Signal Temporal Logic Specifications. [submitted].
	• Chen, F., Sewlia, M. and Dimarogonas, D.V., 2024. Cooperative control of heterogeneous multi-agent systems under spatiotemporal constraints. Annual Reviews in Control, 57, p.100946.
	• Sewlia, M., Verginis, C.K. and Dimarogonas, D.V., 2022. Cooperative Object Manipulation Under Signal Temporal Logic Tasks and Uncertain Dynamics. <i>IEEE Robotics and Automation Letters</i> , 7(4), pp.11561-11568.
	• Sewlia, M. and Zelazo, D. Bearing-Based Formation Stabilization Using Event- Triggered Control. International Journal of Robust and Nonlinear Control, 2024; 1-13.
CONFERENCES	• Wong, R. C. Y, Sewlia, M., Wiltz, A., and Dimarogonas, D. V. "Generating and Optimizing Topologically Distinct Guesses for Mobile Manipulator Path Planning". [Submitted ICRA 2025]
	• Sewlia, M., Verginis, C. K., and Dimarogonas, D. V. Leader-Follower Cooper- ative Manipulation Under Spatio-Temporal Constraints[Accepted IROS 2024]
	• Sewlia, M., Verginis, C. K., and Dimarogonas, D. V. "Cooperative Sampling- Based Motion Planning under Signal Temporal Logic Specifications". In 2023, American Control Conference (ACC), 2697-2702. IEEE.
	• Sewlia, M. and Zelazo, D. "Distributed Event-Based Control for Second-Order Multi-Agent Systems. "In 2019, 27th Mediterranean Conference on Control and Automation (MED), 310-315. IEEE.

COURSES TAUGHT AND SUPERVISION	• Automatic Control Course EL1020, Bachelors level, KTH, 7.5 ECTS.	
	• Control Theory and Practice - Advanced Course EL2520, Masters level, KTH, 7.5 ECTS.	
	• Masters thesis supervision (jointly with Ericsson Research): Hampus Carlens: Manipulation on the move for pick and place tasks.	
	• Masters thesis supervision (jointly with Adrian Wiltz): Rufus Wong: Motion Planning of Redundant Manipulators.	
	• Masters thesis supervision: Sara Gomiero: Sampling-based synthesis of con- trollers for coupled agents under Signal Temporal Logic specifications.	
LEADERSHIP AND EXTRA- CURRICULAR	• (Jan 2022 - November 2023) I served as the Vice-President of the KTH Rowing board: where I coordinated beginner courses each semester, managed boat logistics, and represented KTH in local and national competitions.	
	• (Dec 2021 - June 2022) Served as a Board Member and <i>Council Coordinator</i> for the KTH PhD Chapter, involving liaising with all five schools at KTH and advocating for enhanced PhD-level courses.	
	• (Oct 2015 - June 2017) Co-founded <i>Quasor Rocketry LLP</i> , a model rocketry startup at Alliance University.	
PROJECT WORK	• Design and FE Analysis of Electrical Harness Connector Support System, ISRO Satellite Center, Indian Space Research Organization, Bengaluru, 2017.	
	• Demonstrator Model for Supersonic Wind Tunnel, Design for Additive Manufacturing Challenge, Additive Industries, The Netherlands, 2017.	
	• Structural Analysis of Rear Engine Mount for Advanced Light Helicopter, Helicopter Division, Hindustan Aeronautics Limited, Bengaluru, 2016.	
ACADEMIC ACHIEVEMENTS	• Recipient of MHRD Scholarship for Academic Excellence from 2013-2017.	
	• Department graduating rank of 3, Class of 2017, Alliance University.	
	• Passed 12th grade with 92.8% and college <i>Biology</i> topper.	
	• Passed 10th grade with 94.7% and school $Mathematics$ topper.	
CO- CURRICULAR ACTIVITIES	 Member of MENSA Sweden. Attended Summer School of Engineering and Sciences, Summer 2017, Technion. Volunteered at Team Krishna, Global Learning XPRIZE. Volunteered at CSR Initiative, Alliance University, Bengaluru. Flight Laboratory Training, IIT Kanpur, Kanpur. Presented and attended 59th Congress of ISTAM, December 2014. Finalists ROBO-ZEST 2014, IIT Bombay, Mumbai. 	
PROGRAMM- ING SKILLS AND TECHNOLOGIES	Linux, Python, ROS, PyDrake, MATLAB.	