

Return address: Metaforum, Groene Loper 5, 5612 AE EINDHOVEN, MF5.075



**Graduation symposium**  
**Automotive Systems Design/Mechatronic Systems Design**

**Blauwe Zaal, Auditorium**  
**October 21, 2022**

Date	Our reference	Your reference	
October 5, 2022	ASD2022	-	M&CS/EngD Automotive Systems Design  T +31 (0)40 247 3908 asd@tue.nl  www.tue.nl

**Subject: Program Symposium**

- 09.00 – 09.15: Welcome with coffee/tea
- 09.15 – 09.45: Opening by Riske Meijer (Program Manager EngD ASD/MSD)
- 09.45 – 10.15: **Alireza Moayyedi (ASD)**  
**Mahmoud Abdelhady (MSD)**  
*Project Buurauto-Noom: Design and Implementation of an Infrastructure-Independent Automated Valet Parking System into a Toyota Prius*  
[In cooperation with Buurauto, AIIM, SmartWayz, and Future Mobility Network, Eindhoven]
- 10.15 – 10.30: **Yash Khetan (ASD)**  
*Using MBSE to improve Traceability and form a Single Source of Truth for Systems Design*  
[In cooperation with Punch Powertrain, Eindhoven]
- 10.30 – 10.45: **Anand Vazhayil Surendran (MSD)**  
*Semi-Automatic Measurement System for Drivetrain Characterizations: Design & Implementation*  
[In cooperation with Philips, Drachten]
- 10.45 – 11.15: **Break**
- 11.15 – 11.30: **Arjun Pradeep Kumar (ASD)**  
*Software Design of a Perception System applied to the TruckLab Environment*  
[In cooperation with TruckLab, Eindhoven University of Technology, Eindhoven]
- 11.30 – 11.45: **Markos Papadimitriou (ASD)**  
*Feasibility Study of an Electric CVT-Powered Midi Bus*  
[In cooperation with Bosch Transmission Technology, Tilburg, and Tribus Specials, Utrecht]

- 11.45 – 12.15: **Maryam Mashayekhi (MSD)**  
*Design and Feasibility Analyses of a Condition Assessment Scanner Tool for Van Gogh's Paintings*  
**Lars Maxfield (MSD)**  
*Towards a Digital Twin for Van Gogh's Paintings: Defining a Vision which meets the Needs of Users in Cultural Heritage; realizing a Prototype Viewer for comparing and integrating Multi-Mode Images.*  
[In cooperation with ASML and M2i, Veldhoven]
- 12.15 – 13.15: **Lunch**
- 13.15 – 13.30: **Berend van den Berg (ASD)**  
*Energy Consumption Prediction for Battery Electric Busses*  
[In cooperation with Sycada, Amsterdam]
- 13.30 – 13.45: **Aneesh Ashok Kumar (MSD)**  
*Material Composition Analyzer for Waste Streams in Sorting Applications*  
[In cooperation with Bollegraaf Recycling Solutions and M2i, Appingedam]
- 13.45 – 14.15: **Kunal Iyer (ASD)**  
*CO2 Reduction Potential using V2X Data*  
**Gijs Linskens (MSD)**  
*Towards Model Based Control of a HD Diesel Engine Air Path with the Engine Modeling Toolbox*  
[In cooperation with DAF Trucks, Eindhoven]
- 14.15 – 14.30: **Break**
- 14.30 – 14.45: **Haoyu Zhu (MSD)**  
*Set up Optimization and Experimental Verification for accurate Transport Measurement of Microparticles*  
[In cooperation with VDL-ETG, Eindhoven]
- 14.45 – 15.00: **Abhishek Balakrishna Bhat (ASD)**  
*Assessment and Preliminary Vehicle-level Architecture Design of a SAE Level 4 rated Vehicle Platform*  
[In cooperation with Lightyear, Helmond]
- 15.00 – 15.15: Closure by dr.ir. Camilo Rindt (Scientific Director EngD ASD/MSD)