

Company Profile

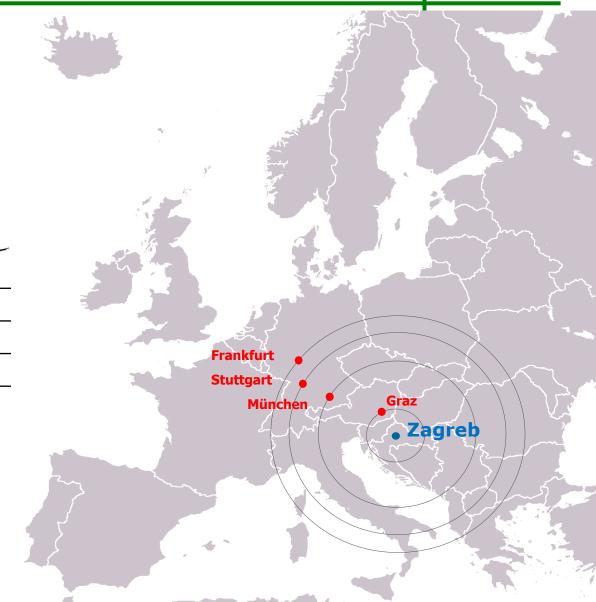


Location



Zagreb - Capitol od Croatia Approx. 1 million inhabitants

		2 ALFA
Graz	200 km	
München	550 km	1 h
Stuttgart	800 km	1,5 h
Frankfurt	900 km	1,5 h



Roots



University of Zagreb

Founded 1669 Oldest in the region

Consisting of: 29 Faculties, 3 Academies

Students: 67039 Employees 6958



Faculty of Mechanical Engineering and Naval Architecture



Founded 1919 Oldest in the region

Consisting of: Mechanical Engineering, Naval Architecture, Aeronautics

Students: 1932 Employees: 504

Adolo 7 Ltd.



Founded 2010 as the new "hightech spinoff" company at the Faculty Adolo 7 disposes collectively of 110 years of professional experience in research and development work on projects, testing and marketing in the area of motor vehicles, internal combustion engines, mechanical engineering and measurement technique

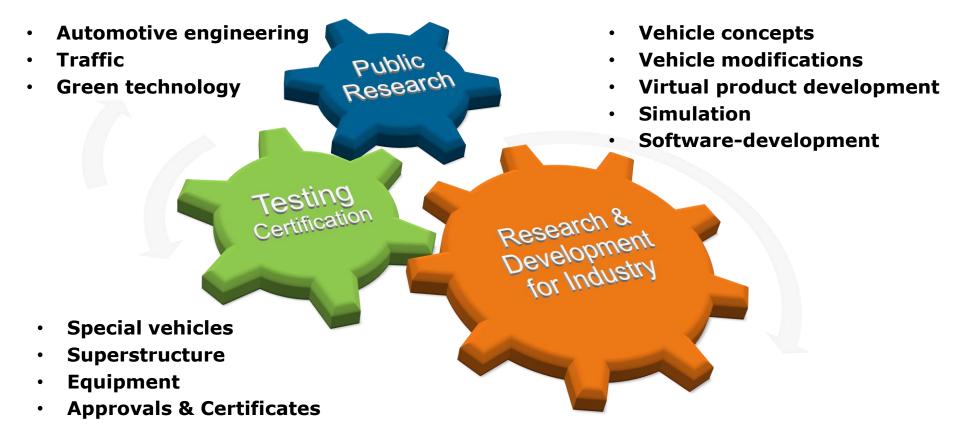
Staff



- Permanent staff
 - 2 professors
 - 4 postdocs / scientific researchers
- Project related staff
 - approx. 10 more professors / scientific officers
- Permanent collaboaration with
 - Kvočić Ltd.
 - National Instruments Slovenia

Core Activities





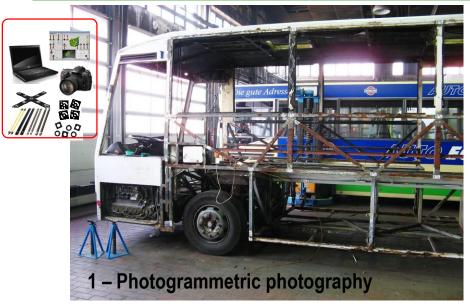
Selected Projects

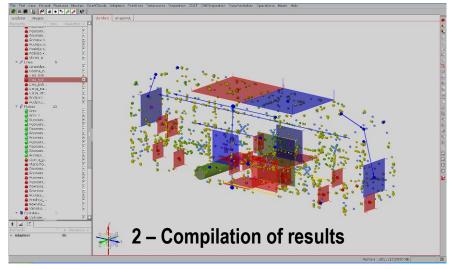


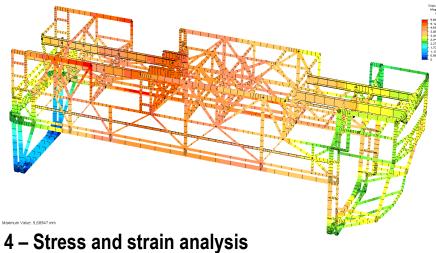
- Concept development of a low-floor bus / commercial vehicle detail: steering system
- Conversion of a regular bus into a panoramic bus
- Modernization of trams
- Development and testing of the braking system for vehicles used by drivers with physical disabilities
- Development of the off-road race car
- CNG large engines: reduction of NOx-emissions
- Truck harness drawing layout optimization
- Data acquisition and signal processing
- RIMAC Electric Vehicle eM3 Vehicle approval documentation

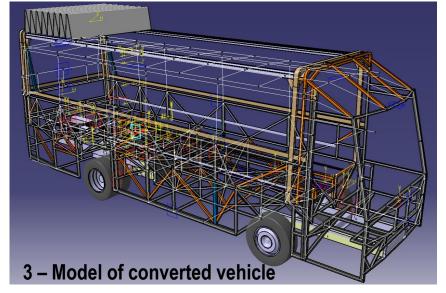
Conversion of a Regular Bus into a Panoramic Bus











Converted Buses





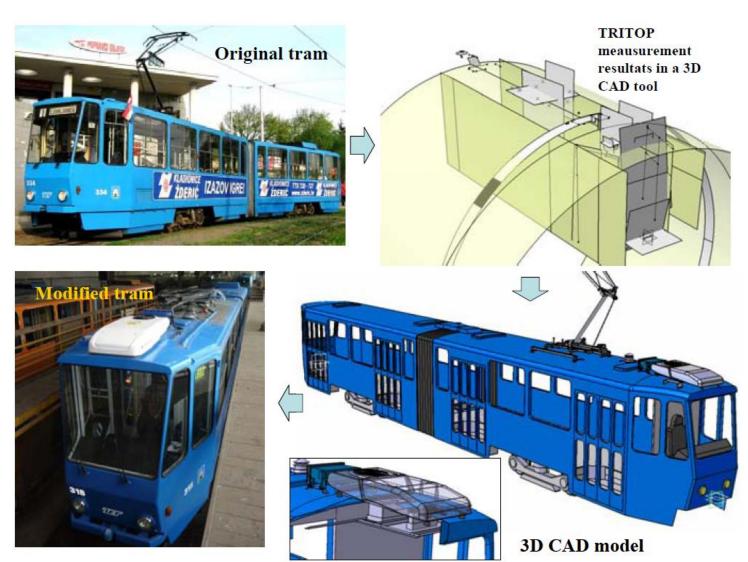






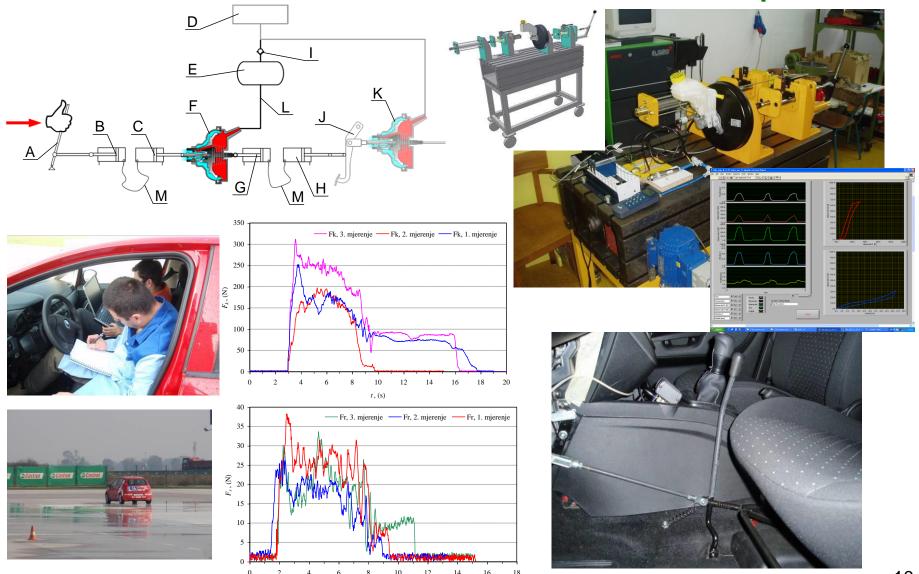
Modernization of Trams





Development the Braking System for Vehicles Used by Drivers with Physical Disabilities

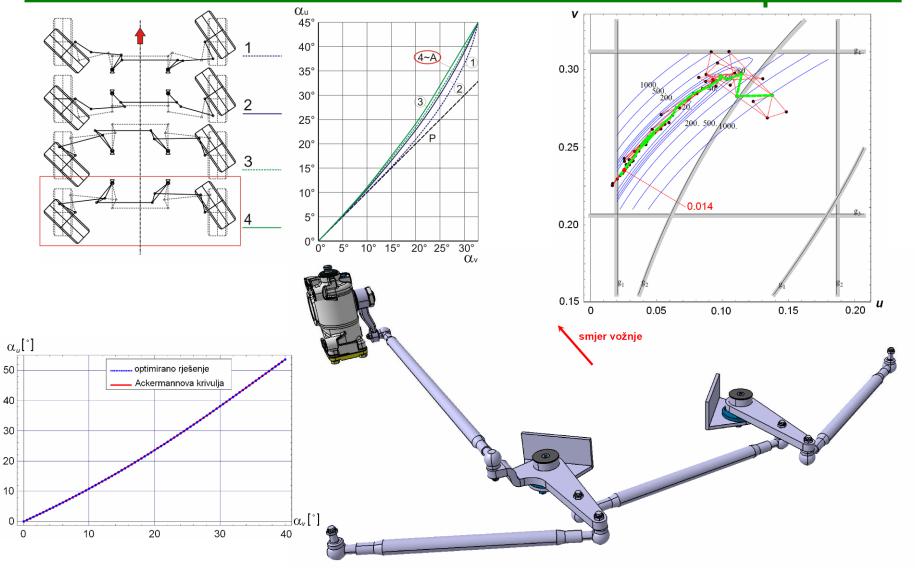




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Development of the Steering System for a Low-floor Bus / Commercial Vehicle





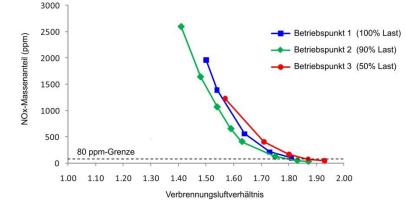
Large CNG-engines: Reduction of NOx Emissions

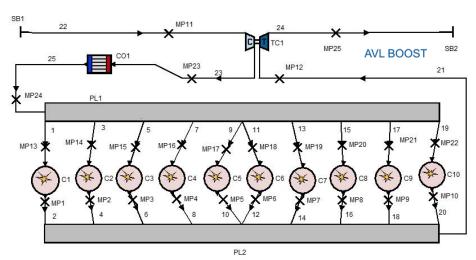


 Feasibility study of the reduction of NOx emissions for the underground natural gas storage PSP Okoli, Ivanic-Grad, Croatia





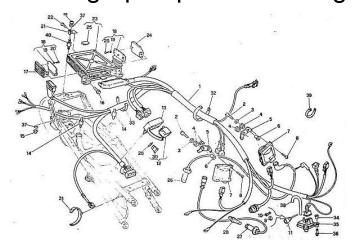




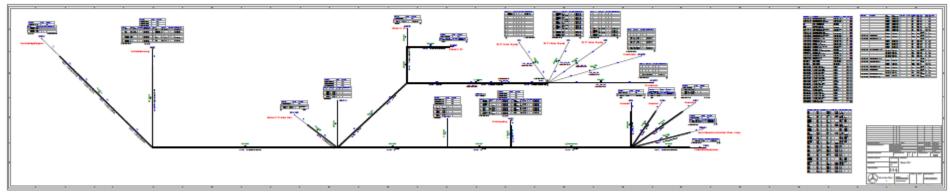
Truck Harness: Drawing Layout Optimization



 Drawing layouts are often too complex to ensure no intersection of singular trees. We developed a solution with no intersections by using various graph optimization algorithms.

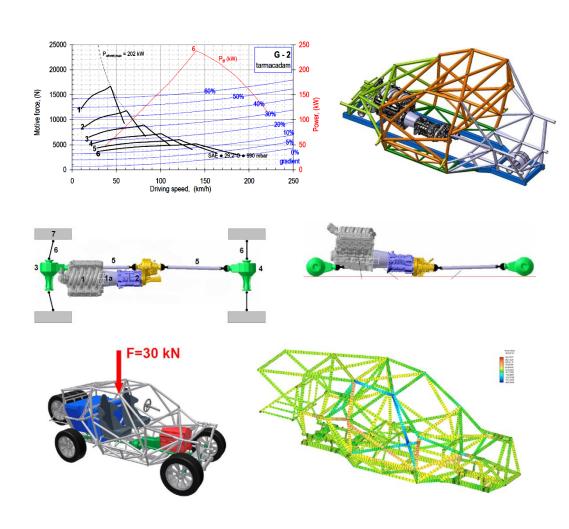


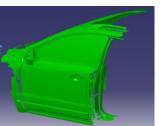


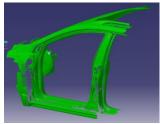


Race Car for DAKAR Rally in an Advanced Stage of Development









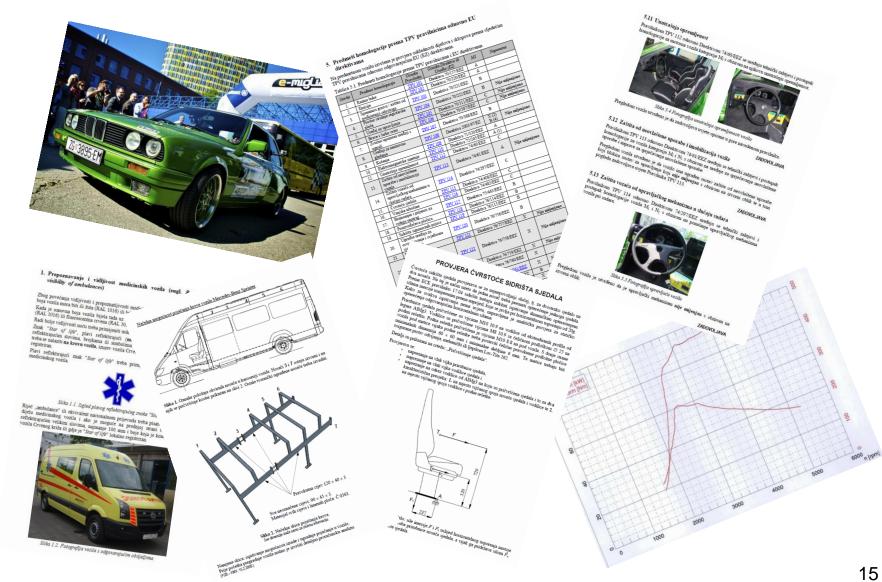






Vehicle approval documentation





NI LabView Aplications



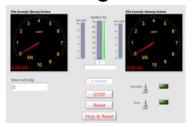
Projects completed:

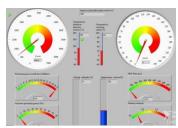
- Engine data acquisition
- Data acquisition via EOBD / CAN
- Braking force at the vehicle wheel control, regulation and data acquisition
- Determination of engine performance on the basis of vehicle acceleration
- Test rig for vehicle set anchor bolts control, regulation and data acquisition

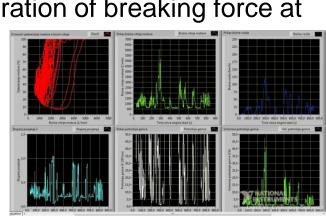
Device for testing complete recuperation of breaking force at

the vehicle wheel

Engine indication







Adolo 7 - Partners



Inland

- Faculty of Mechanical Engineering and Naval Architecture
- Faculty of Electrical Engineering and Computing
- Kvočić d.o.o.
- National Instruments

• ...



International

- AVL Ges.m.b.H. (A)
- PROSTEP AG (D)
- Triple Ing GmbH (D)

Adolo 7 partner – Test facilities

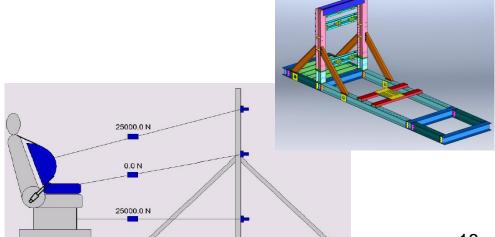


- Hydraulic dyno 400 kW, 10.000 rpm
- Eddy current dyno 20 kW, 10.000 rpm
- AVL Puma Test Bed Automation
- Test rig for vehicle seat anchor bolts
- GOM Tritop
- NI equipment









Adolo 7 partner - Kvocic Ltd.

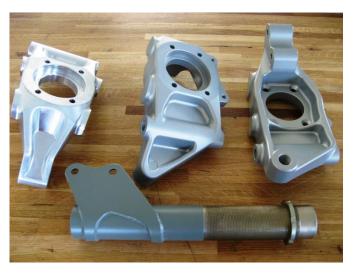
Development and individual production of high-tech components



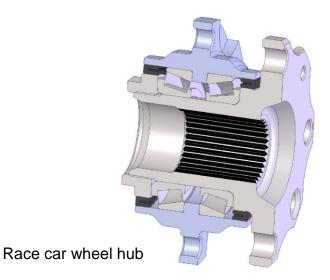


Race car power train and engine components





Race car suspension components



Adolo 7 partner - Kvocic Ltd.

Race-car tuning and support service

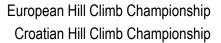




Small Machining Center FANUC ROBODRILL α-T14iFLe Stroke X700 x Y400 x Z330mm



Croatian Hill Climb Championship







Wire-cut Machining Center FANUC ROBOCUT α-0iC Stroke X320 x Y220 x Z255mm angle up to 30° UV-axis á 120mm



European Truck Racing Championship

Contact



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