

WELCOME TO



FORMULA STUDENT AUSTRIA

2013!

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PARTNERS



AVL is the world's largest privately owned company for development, simulation and testing technology of powertrains (hybrid, combustion engines, transmission, electric drive, batteries and software) for passenger cars, trucks and large engines.

Currently operating 6.200 employees in 45 locations worldwide, with a turnover of € 1.015 million, the proportion of company-financed research is approx. 12.5%.

Scope of Business:

Development of Powertrain Systems

AVL develops and improves all kinds of powertrain systems and is a competent partner to the engine and automotive industry. In addition AVL develops and markets the simulation methods which are necessary for the development work.

Engine Instrumentation and Test Systems

The products of this business area comprise all the instruments and systems required for engine and vehicle testing.

Advanced Simulation Technologies

The developed simulation software is focusing on design and optimization of powertrain systems and covers all phases of the development process.

Career opportunities:

Every day AVL is developing cutting-edge solutions for our clients. We are pushing ahead to realize visions and set new standards. We are looking for people who have the drive for excellence and the ambition to become part of an advanced team of professionals. For those who join us, the opportunities are endless.

www.avl.com/career

Social Media:

www.facebook.com/AVL.List

twitter.com/#!/avl_list

www.avl.com

PARTNERS



ACstyria functions as the hub of the Styrian automotive and aviation supply chain industry and has - with 190 partner companies - gained major cross-regional and international importance.

ACstyria connects partners from the fields of economy, research and public bodies for the automotive and aviation industry's interests. Initiating cooperation between companies in order to open potentials and find synergies and to support them at best lies at the centre of the cluster's activities. Thus ACstyria successfully supports its partners to improve their innovation potential and international competitiveness. Furthermore, for its partner companies the cluster facilitates a large number of activities to go international.

www.acstyria.com



Autodesk's Commitment to Education

Autodesk® has long been committed to inspiring the next generation of design professionals. By offering complete multi-disciplinary suites that group the latest industry technologies along with high-quality training resources, teachers and students can access the same technology used by industry professionals to realise their design dreams. Autodesk also hosts the Education Community, where students and teachers from around the world can download the 2014 releases of 44 leading Autodesk products for free. Since its launch in 2006, the community has grown to nearly 7 million members from around the globe. Autodesk is offering all Formula Student teams access to Autodesk Sim 360 Pro, for free. Sim 360 Pro cloud-based solution enables design and mechanical engineering students to complete multiple complex simulations without locking up computer resources or needing to change the current CAD software product. For more information visit www.student.autodesk.com
www.autodesk.com

PARTNERS



*Federal Ministry
for Transport,
Innovation and Technology*



Our job: to create and develop an intelligent and efficient infrastructure; to shape and promote innovative initiatives.

Mission statement

Our concern is with the wellbeing of our citizens nationwide and with making an active contribution to European integration. Our work is geared to developing Austria in a sustainable manner, making the country a desirable location and improving the quality of life of its citizens. To that end we work to secure conditions in which a fair balance of interests in society can be achieved in the areas of communications and mobility and we promote innovation and technology.

In this way we are laying the foundations today for successes tomorrow.

www.bmvit.gv.at

Seit 2008 fördert der Klima- und Energiefonds Elektromobilität in Österreich und zwischenzeitlich sind eine ganze Reihe von Projekten und Initiativen in diesem Bereich entstanden. Dennoch gibt es weiterhin großen Forschungs- und Entwicklungsbedarf bei diesem Zukunftsthema.

Daher setzt der Klima- und Energiefonds, in Kooperation mit dem bmvit, 2012 das erfolgreiche Programm „Leuchttürme der Elektromobilität“ fort. Das Programm unterstützt österreichische Institutionen und Unternehmen bei ihren Forschungs- und Entwicklungsprojekten, die strombetriebene Mobilität als Alternative zum diesel- und benzinbetriebenen Güter- und Individualverkehr attraktiv machen. Es wird an jenen Konzepten und Technologieansätzen geforscht, die in den derzeit acht Modellregionen der E-Mobilität im Großversuch erprobt werden.

www.klimafonds.gv.at

PARTNERS



The Austrian Society of Automotive Engineers (Österreichischer Verein für Kraftfahrzeugtechnik – ÖVK) is a non-profit organisation which seeks to promote the meaningful application of automotive engineering. Furthermore, it organises scientific conferences, lectures, seminars, and symposia at which mechanical engineering experts can deepen and widen their knowledge in the field of automotive engineering, and publishes relevant documents. The Association's supreme goal is to create a symbiosis between theoretical scientific findings and their practical application by engaging in a permanent dialogue and assuring an exchange of experience between mechanical engineering experts lecturing at universities or working in practice and scientists. The Association was founded in 1985 and at present has about 750 regular members who are natural persons.

www.oevk.at



Pankl Racing Systems AG, based in Bruck/Mur, Austria, specialises in developing and manufacturing engine- and drivetrain components for racing cars, high performance vehicles and the aerospace industry.

Pankl scores with lightweight components made from high-grade innovative materials designed to withstand extreme mechanical stress.

Pankl is a global niche player with worldwide subsidiaries in Austria, UK, USA, Slovakia and Japan. Pankl employs around 800 people and achieved a total turnover of EUR 109m in the fiscal year 2010.

www.pankl.com

PARTNERS



Graz is a smart city: employees in Graz have a high level of education, a quarter of them having completed tertiary education. Graz has at its disposal first class research institutes that pursue intensive contact with business, and Graz is headquarters to world-class businesses.

In order to make the best possible use of synergies and penetrate global markets, businesses are networked via substantial clusters covering four areas of excellence, namely Automotive Engineering, Human and Biotechnology, Renewable Energy and Environmental Technology and Creative Industries. Thanks to proximity to the commercial zone of south-eastern Europe with more than 50 million inhabitants, on top of that businesses in Graz enjoy the best potential to develop.

www.wirtschaft.graz.at

Tomorrow's vehicles need to meet highest standards. Cleaner, safer, more powerful – already the near future promises exciting advances in technology trends and development. Evolve the technology and provide the technology, these are the challenges for the team of the Competence Center VIRTUAL VEHICLE in Graz. In a global network of over 100 industrial and research partners the VIRTUAL VEHICLE realizes innovative ideas and develops cutting-edge technology. In particular we see simulation technology, numerical and experimental simulation, as key to progress in vehicle development. The focus of research is on developing new technologies, methods and tools for system design and system optimization of road and rail vehicles. Since its founding in 2002, the VIRTUAL VEHICLE has established itself as a leading research and development center with over 200 employees in the international scientific community. For more information about VIRTUAL VEHICLE and to all currently advertised positions, please visit www.v2c2.at. www.vif.tugraz.at

SUPPORT



www.wko.at/fahrzeuge



www.hotelfohnsdorf.at



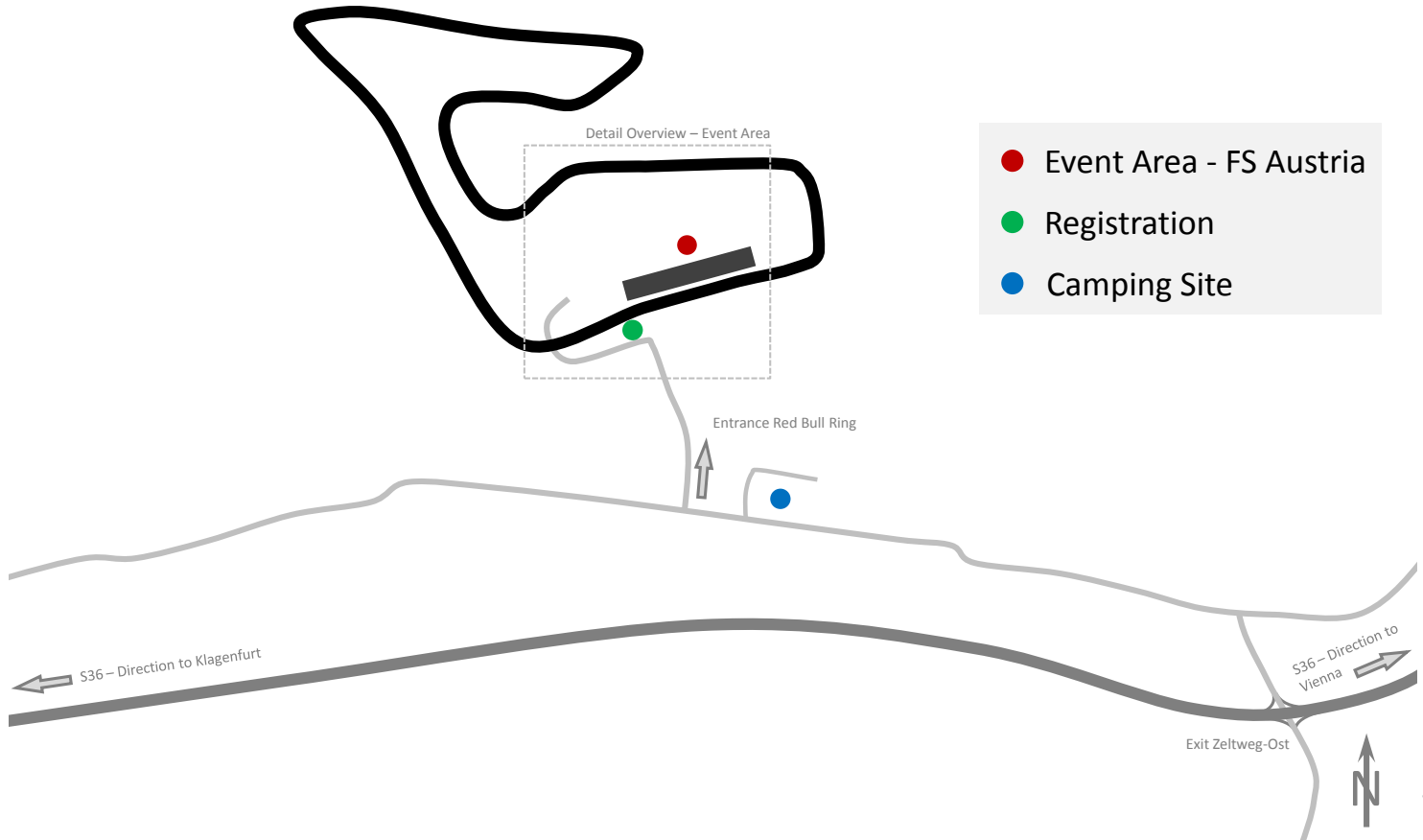
www.moitzi-spielberg.at



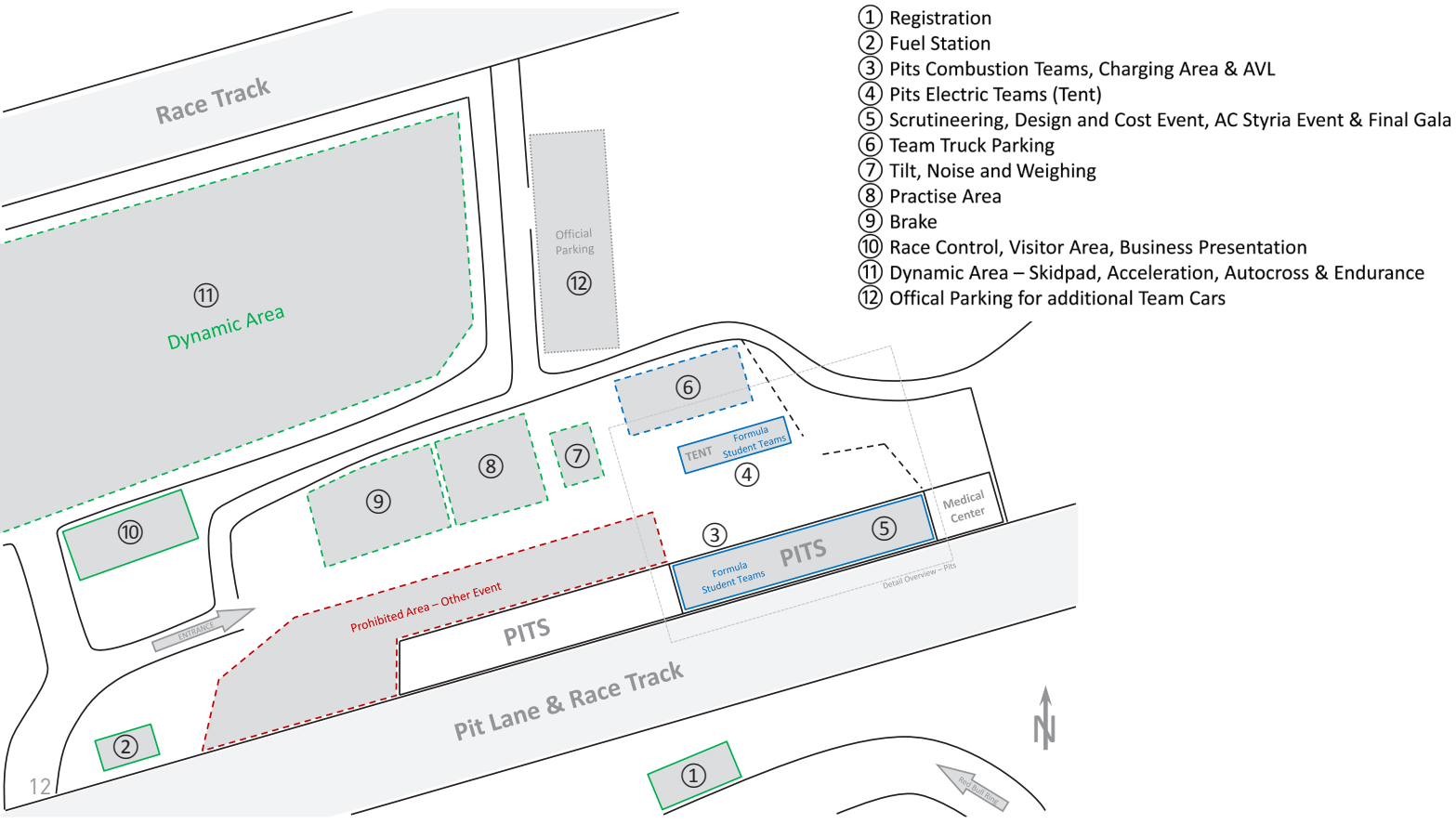
www.riedel.net



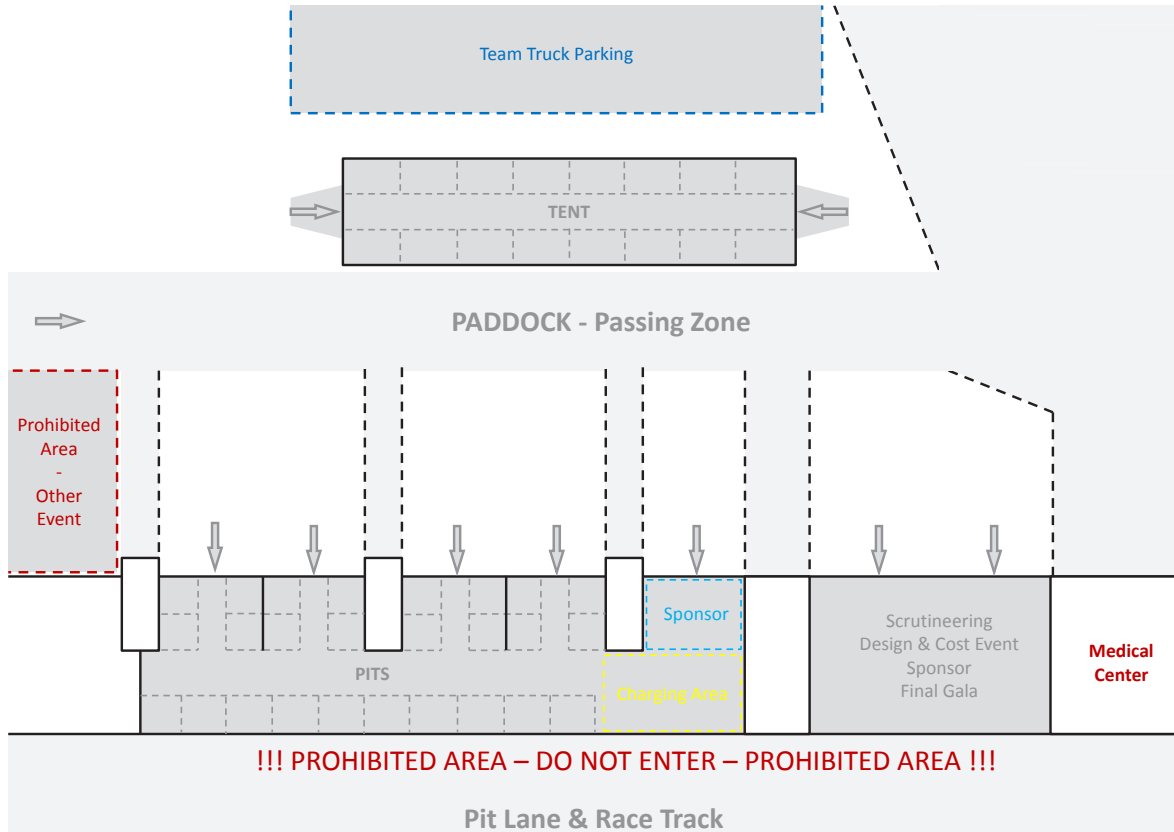
OVERVIEW - RED BULL RING



OVERVIEW - EVENT AREA



OVERVIEW - PITS





HOME OF POWER BRANDS

The winner takes it all: Which one of these is no discipline of this year's FSA?

a) least fuel consumption

b) best acceleration

c) endurance race

d) biggest fan base

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Welcome to Tognum in Friedrichshafen, Germany.

We look forward to hearing from you.

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regine.siemann@tognum.com • phone +49 (0) 7541 / 90-6513



PARTICIPATING TEAMS



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www.global-formula-racing.com



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www.tufast.de



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www.cqsgrouptracingteam.be

PARTICIPATING TEAMS



TECHNISCHE UNIVERSITÄT CAROLO WILHELMINA ZU BRAUNSCHWEIG

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www.lionsracing.de



KARLSRUHE INSTITUTE OF TECHNOLOGY
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www.elefantracing.de



HOCHSCHULE DARMSTADT
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www.fastda-racing.de

PARTICIPATING TEAMS



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www.fsmadi.ru/en



TU DELFT

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www.dutracing.nl



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www.einstein-motorsport.com



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www.ka-raceing.de



UAS OSTWESTFALEN-LIPPE
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UNIVERSITY OF MARIBOR
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www.formula.fs.uni-mb.si



UNIVERSITÄT DER BUNDESWEHR MÜNCHEN
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www.athene-racingteam.de

PARTICIPATING TEAMS



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www.greenteam-stuttgart.de



HTWG KONSTANZ
BODENSEE RACING TEAM



www.brt-konstanz.de



UNIVERSITÄT KASSEL
HERKULES RACING TEAM



www.herkulesracing.de



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www.rennteam-stuttgart.de

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www.tufast-etechnology.de



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PWR RACING TEAM



www.racing.pwr.wroc.pl



ETH ZÜRICH
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www.high-octane-motorsports.de



HTW DES SAARLANDES
SAAR RACING TEAM

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www.saar-racing-htw.de



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UPBRACING TEAM E.V.

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PARTICIPATING TEAMS



UAS REGENSBURG
REGENICS



www.regenics.hs-regensburg.de



TECHNISCHE UNIVERSITÄT DARMSTADT
TU DARMSTADT RACING TEAMS E.V.



www.dart-racing.de



CZECH TECHNICAL UNIVERSITY IN PRAGUE
CTU CARTECH ELECTRIC



www.carttech.cvut.cz



CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE
CULS PRAGUE FORMULA RACING



www.culsracing.cz

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www.rennschmiede-pforzheim.de



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www.kthraciing.se



HAW HAMBURG
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www.hawksracing.de

FSA-Rennwagenantrieb vs. Tognum-Großdieselmotor: Was ist sowohl für unsere Ingenieure als auch für die Entwickler der FSA-Teams von großer Bedeutung?

a) stete Weiterentwicklung

b) innovative Methoden

c) regelmäßige Kontrollen

d) alle drei Antworten

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Aus faszinierenden Ideen machen unsere rund 10.000 Mitarbeiter kraftvolle Technik – vom 10.000-kW-Dieselmotor bis zum klimafreundlichen Blockheizkraftwerk. Mit den Marken MTU und MTU Onsite Energy ist Tognum einer der weltweit führenden Anbieter von Motoren, kompletten Antriebssystemen und dezentralen Energieanlagen. Innovative Einspritzsysteme von L'Orange vervollständigen unser Technologie-Portfolio rund um den Antrieb. Bewegen auch Sie mit uns die Welt!

Praktikum, Abschlussarbeit, Berufseinstieg: Tognum bietet Ihnen alle Möglichkeiten. Informieren Sie sich näher über unsere Website oder auf unserer Facebook-Seite: www.facebook.com/tognum

Willkommen bei der Tognum AG in Friedrichshafen.

Wir freuen uns, von Ihnen zu hören.

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regine.siemann@tognum.com • Tel. +49 (0) 7541/90-6513



SCHEDULE

Daily operations

12:00 – 13:00	Lunch Break (no engine running anywhere)
18:00 – 08:00	no engine running anywhere
20:00	Official Closing of the Site - everybody has to be off Site

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Monday, 26th of August 2013

13:00	Site opens
13:00 – 17:00	Registration open
13:00 – 17:00	Event Control open
13:00 – 18:00	Tech Inspection (in the Scrutineers pit)
18:30	Team Welcome (at the pits)
Afterwards	Team Captains and Faculty Advisors Meeting

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Tuesday, 27th of August 2013

07:00	Site opens
07:30 – 08:00	Driver's Briefing
08:00 – 18:00	Event Control open
08:00 – 18:00	Tech Inspection
08:00 – 18:00	Fuel Station open
08:30 – 20:00	Cost Event
08:30 – 20:00	Engineering Design
08:30 – 20:00	Business Presentation
09:00 – 18:00	Tilt Test
09:00 – 18:00	Noise Test
09:00 – 18:00	Brake Test
12:00 – 13:00	Lunch Break (no engine running)
13:00 – 18:00	Practice Area open

SCHEDULE

Wednesday, 28th of August 2013

07:00	Site opens
07:30 – 08:00	Driver´s Briefing
08:00 – 18:00	Event Control open
08:00 – 18:00	Fuel Station open
08:30 – 17:30	Practice Area open
08:30 – 12:00	Skid Pad
08:30 – 12:00	Acceleration
12:00 – 13:00	Lunch Break (no engine running)
12:30 – 13:30	Engineering Design Finals
13:00	Driver´s Course Walk Autocross
14:00 – 17:00	Autocross
18:00	Staging for Panoramic Picture

Tech Inspection / Brake / Tilt / Noise by appointment until 12:00

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Thursday, 29th of August 2013

07:00	Site opens
07:30 – 08:00	Driver´s Briefing
08:00 – 18:00	Event Control open
08:00 – 18:00	Fuel station open
08:30 – 09:00	Driver´s Course Walk Endurance
08:30 – 18:00	Practice Area open
09:30 – 18:00	Endurance
12:00 – 13:00	Lunch Break (no engine running)
19:00	Pits Closing
20:00	Award Ceremony – Final Gala
00:00	everybody has to be off the Site

