

Introducing The Freescale Cup EMEA 2015

Information, deadlines and registration

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JUNE 2014





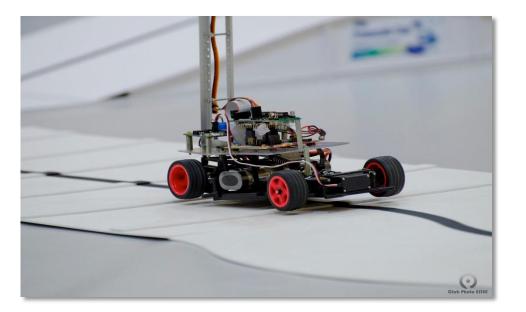
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- The Freescale Cup: Introduction
- A look at 2014
- The 2015 Challenges
 - -High School Challenge
 - -The Freescale Cup
 - -The Innovation Challenge
- Challenges chronology
- Support structure
- Call for Action
- Contact information









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<u> The Freescale Cup Opening - Fraunhofer IIS Channel</u>

Freescale Cup Finals Fraunhofer IIS Movie





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The Freescale Cup in EMEA and in the World

- Global student challenge with over 33,000 students enrolled each year
- 4th running season in EMEA
- Promote real life engineering challenges
- Focusing on Embedded application design for low power requirements
- Drive creativity and teamwork spirit
- Create experience for internship and career start
- International student exposure through regional and international events





The Freescale Cup 2014 – Pure Success!!!!





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The Freescale Cup EMEA 2015 Challenges

High School Challenge

Pilot Program

High School Students

- Supported by local Universities
- Focus on initial programming with mbed and MATLAB
- 1-lap race
- Winner based on speed only
- Center lane track

The Freescale Cup

- Bachelor Students with max 1 Master student/team
- Focus on C+ programming with MATLAB and CodeWarrior
- 1-lap race
- Winner based on speed only
- Edge lane track

Innovation Cup

Pilot Program Start October 2014

- Open to all students
- All Freescale Architectures
- All programming tools
- Multiple lap race with color cues
- Winner based on combination of speed and power consumption
- Edge lane track



The Freescale Cup EMEA 2015 Hardware

High School Challenge and Freescale Cup

- 2 Brush Motors
- Servo for steering
- CMOS Line Scan camera (128-bit)
- Freescale MCU:
 - FRDM-KL25Z Cortex M0+ with Motor Interface Shield (standard in shipment)
 - TRK-MPC5606B Qorivva Power Architecture
- 50% discount on additional Freescale Hardware

Innovation Challenge

- 1 Brush motor with cooling air system
- Servo for steering
- CCD color camera
- All Freescale architectures 32-bit and above including multicore
- Free MCU board (Tower, TRK and Freedom)
- 50% discount on additional Freescale Hardware



The Freescale Cup Race Tracks



High School Challenge – <u>Center Lane Track</u>

Start/Stop

• Hill/Bumps/Chicane and Tunnel



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Freescale Cup and Innovation Challenge – Edge Lane Track

Start/Stop

Hill/Bumps/Chicane and Tunnel

Track Information: https://community.freescale.com/docs/DOC-1092



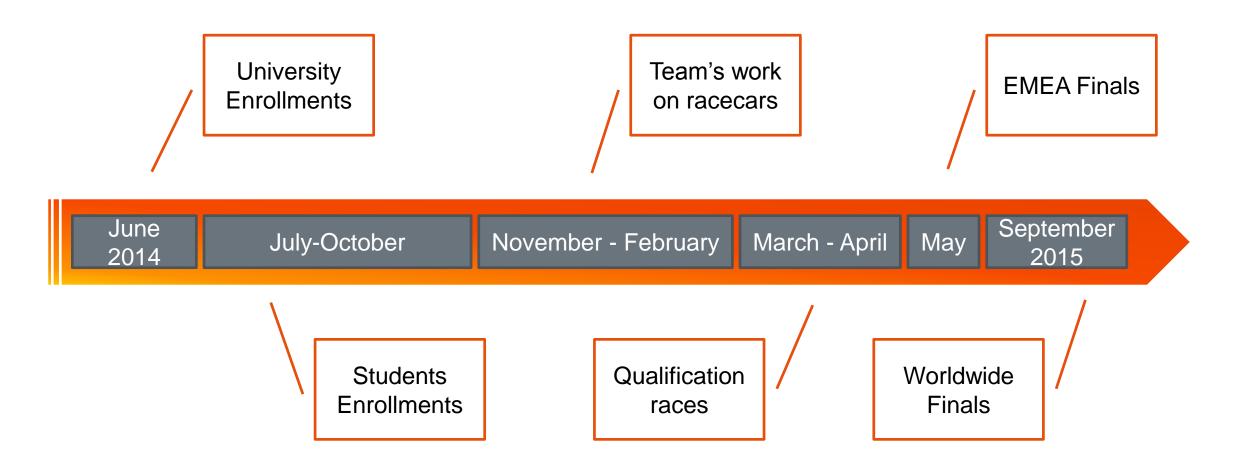
2015 Freescale Cup Events



Note: Freescale Cup events will include High School and Innovation Challenges for selected regions



Events Chronology





Signing up

- Freescale Cup at Universities
 - -Contact your regional University Programs support team
 - Eastern Europe: Ivan Skalka <u>ivan.skalka@Freescale.com</u>
 - UK: Derek Beattie <u>derek.beattie@Freescale.com</u>
 - Israel: Shlomo Greenberg <u>Shlomo.Greenberg@Freescale.com</u>
 - Romania: Bogdan Costinescu <u>bogdan.costinescu@Freescale.com</u>
 - All other countries: Flavio Stiffan Flavio.stiffan@Freescale.com
- Pilot Programs High schools and Innovation Cup
 - -Flavio Stiffan Flavio.stiffan@Freescale.com

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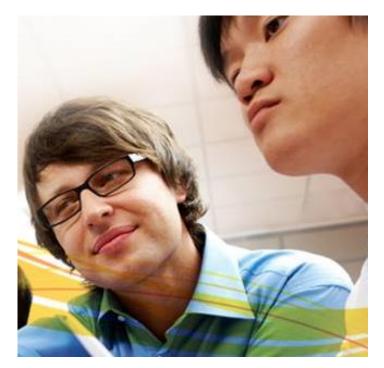






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Support Structure











Samples Buy Direct Parametric Search Freescale Cup EcoCar CodeWarrior Product communities Software and Hardware Ecosystem

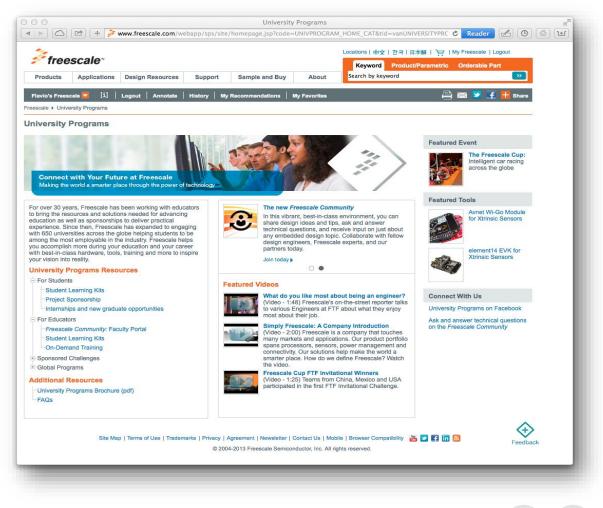


Where to start??

Freescale University Main Page provides guidance

- Project registration
- The Freescale Cup
- Educators teaching material

http://www.freescale.com/universityprograms





Student Project Sponsorship

- Standard discount 15% discount on development tools
- Project sharing via YouTube video
- Free Academic CodeWarrior license

Registration page from the Freescale University Page

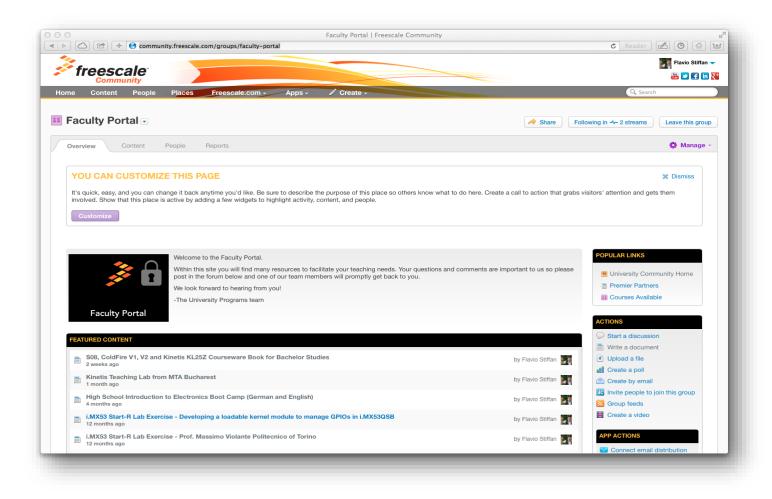
http://www.freescale.com/universityprograms





The Faculty Portal: Your Source for Courseware

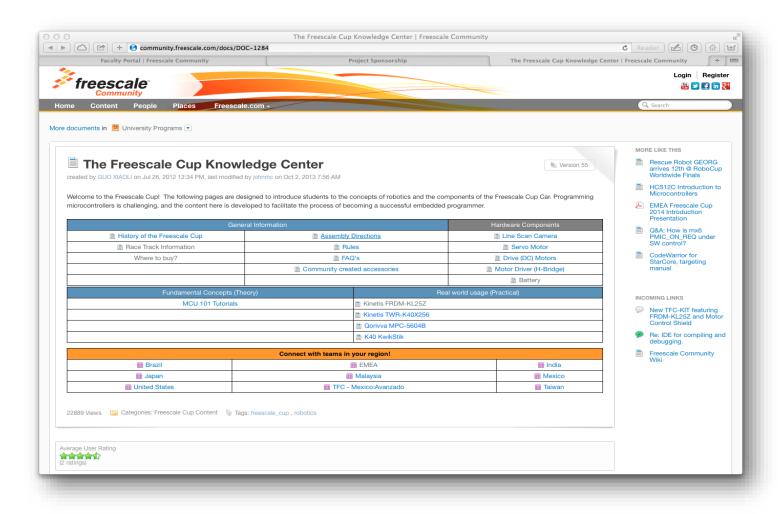
https://community.freescale.com/groups/faculty-portal





The Freescale Cup: Meet the Community

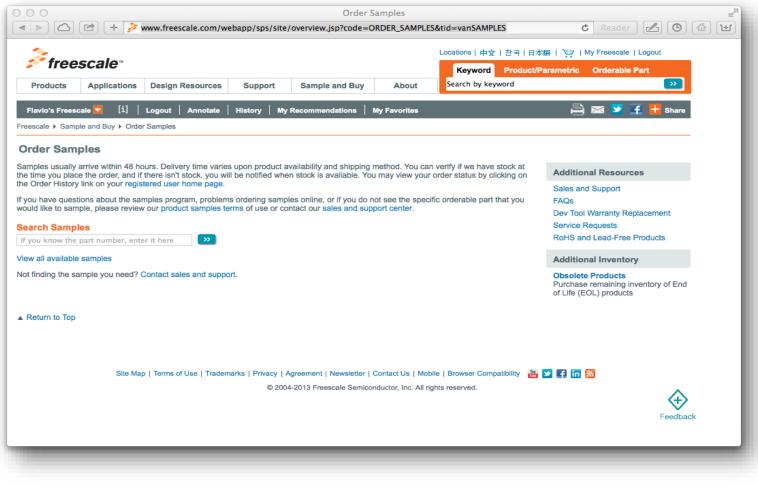
https://community.freescale.com/docs/DOC-1284





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http://www.freescale.com/samples





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