

## **ANALOG DESIGN CONTEST FOR INDIAN UNIVERSITIES - 2009**

Website – [www.india.ti.com/in/analogdesigncontest.htm](http://www.india.ti.com/in/analogdesigncontest.htm) (Under Construction)

Texas Instruments announces an Analog Design Contest for Indian Universities for the year 2009. To encourage system-level design at the undergraduate level of engineering education, Texas Instruments has announced a design contest, which is now open to Indian Universities. Five universities will be selected from India for participation in the contest, which will take place in two rounds. In round one, teams from within each university compete for a \$1,500 prize (to be split among team members). The winning team from each school will then be entered in the second round, called the *Engibous Prize Contest*. This contest has a first-place prize of \$10,000, second place \$7,500, and third place \$5,000, each to be split among team members.

### **Who can enroll?**

- Any Indian College/University that offers undergraduate programs in Engineering may participate.
- A letter of intent to take part in the contest, signed by the Principal of the College, must be sent to the address shown below. A sample letter format is also enclosed with this announcement.
- The university must propose at least three teams, each team consisting of two or more undergraduate students and at least one faculty advisor from the University. If a student is enrolled in a dual-degree program, then he/she is eligible to participate if he/she in the first four years of a UG program.
- For each team, please include a 1-page proposal which contains the following information:
  1. Name of the University
  2. Department
  3. Names of student team members along with their student id numbers
  4. Name(s) of faculty advisor(s)
  5. E-mail contacts of the students and faculty
  6. Mobile phone contacts of the students and faculty
  7. Title of the project
  8. Brief summary of the project, explaining the intention

### **Guidelines**

- The letter of intent, along with proposals, must be received no later than July 31, 2009. All proposals will be acknowledged. Shortlisted colleges will be intimated by August 20, so that they can proceed with the project implementation. The names of the shortlisted colleges will appear on the TI website.
- The proposal should not have been submitted as an entry for any other contest.
- Universities that propose three or more projects will be short-listed for the award and their names will be published on contest website.
- It is a requirement that the project will make use of either (a) at least three analog chips from TI or (b) at least two analog chips from TI and a TI processor. Eligible chips include:

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| <ul style="list-style-type: none"> <li>○ <b>Analog category</b> <ul style="list-style-type: none"> <li>▪ <b>Amplifiers</b></li> <li>▪ <b>Clocks and timers</b></li> <li>▪ <b>Comparators</b></li> <li>▪ <b>Data converters</b></li> <li>▪ <b>Interface</b></li> <li>▪ <b>MSP430 (MCU+ADC)</b></li> <li>▪ <b>Power management</b></li> <li>▪ <b>RF</b></li> <li>▪ <b>Switches</b></li> <li>▪ <b>Temperature sensors</b></li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>○ <b>Processor category</b> <ul style="list-style-type: none"> <li>▪ <b>MSP430</b></li> <li>▪ <b>OMAP</b></li> <li>▪ <b>DSP</b></li> </ul> </li> </ul> |
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- If you need help in getting free IC samples for any specific TI chip, you should write to C.P. Ravikumar ([ravikumar@ti.com](mailto:ravikumar@ti.com)) specifying the part number and package type. (In order to understand what package types are available as free samples, please go to [www.ti.com](http://www.ti.com) and click on "Sample and Buy".)
- It is expected that the teams will independently work on the project.
- The final submission is due on November 1, 2009 and must include a write-up on the project, limited to 10 pages.
- The write-up must include the following.
  1. A copy of the original proposal
  2. An abstract of about 150 words explaining what was achieved in the project
  3. An introduction to the problem
  4. Proposed solution – highlight any innovation
  5. Practical challenges faced in implementation
  6. Results, highlighting your accomplishments
  7. References to papers, websites, etc.
  8. Photograph(s) of the finished product.
  9. A letter signed by the faculty member in the specified format.
- The prizes will be announced in the first quarter of 2010.
- The decision of the judges will be final. TI reserves the right to split the prize money in case the judges recommend more than one winning entry. Similarly, TI reserves the right to not award The Engibus Prize awards if there are not sufficient entries or if the judges so recommend.

### **Rewards**

- Each team member of all submitted entries will receive a certificate of participation from Texas Instruments.
- The details of five selected proposals will be publicized on TI website.
- A prize of US \$1500/- will be awarded to each of the five selected entries in Round 1.
- The winners of Round 1 will automatically enter Round 2. If the team gets selected in Round 2, the **Engibus** Prize of \$10,000/- will be awarded to the team. The 2<sup>nd</sup> place team will receive \$7,500, and the 3<sup>rd</sup> place team will receive \$5,000.
- The students/faculty will be invited to attend the TI Technical Symposium, where the award will be presented to them.
- The students/faculty will have the opportunity to present their work in a TI University forum.
- The students/faculty will have the opportunity to publish their work in a TI publication.