http://careereco.net/files/2010/06/mathworks_logo.jpg**BEST Simulink Design Award (2014)**

**Judging and Scoring Instructions**

(For judges and regional reps only)

**Judge Recruitment**

* Each region will recruit a minimum of 3 judges by **October 1st**. The recruitment will be done by the Regional Judging Coordinator with assistance from BRI Director of Operations and MathWorks.
* The background requirements for judges are:
  + Basic working knowledge of MATLAB and Simulink
  + Understanding of the 2014 game concept and tasks
* Use the table below to capture information about the judges for your region.

| **Name** | **Affiliation** | **Phone** | **E-mail** |
| --- | --- | --- | --- |
| <Each Regional has 3 volunteers> | [Texas BEST Championship](http://utdallas.edu/best/) |  |  |
|  | [Texas BEST Championship](http://utdallas.edu/best/) |  |  |
|  | [Texas BEST Championship](http://utdallas.edu/best/) |  |  |
|  | [South’s BEST Championship](http://www.southsbest.org/) |  |  |
|  | [South’s BEST Championship](http://www.southsbest.org/) |  |  |
|  | [South’s BEST Championship](http://www.southsbest.org/) |  |  |
|  | [Northern Plains BEST Championship](http://www.bestinc.org/b_best_regions.php) |  |  |
|  | [Northern Plains BEST Championship](http://www.bestinc.org/b_best_regions.php) |  |  |
|  | [Northern Plains BEST Championship](http://www.bestinc.org/b_best_regions.php) |  |  |
|  | [Frontier Trails BEST Championship](http://uafs.edu/ftbest/ft-best-home) |  |  |
|  | [Frontier Trails BEST Championship](http://uafs.edu/ftbest/ft-best-home) |  |  |
|  | [Frontier Trails BEST Championship](http://uafs.edu/ftbest/ft-best-home) |  |  |

**Judging Instructions**

* The submission deadline for teams is the following for each region **before 11 PM local time:**
  + **Texas BEST– 11/02/2014**
  + **Frontier Trails BEST– 11/30/2014**
  + **Northern Plains BEST -   11/30/2014**
  + **South’s BEST – 11/30/2014**
* Entries from all teams will be available online at <http://www.bestinc.org/simulink_judging.php>. The Regional Judging Coordinator will provide judges with the necessary credentials to access and score the entries for their respective regions.
* Judges will be provided with an online presentation on Simulink basics by Sandeep Hiremath from MathWorks before starting the judging process around **mid-October (the exact date will be announced no later than Oct 1st)**. You can also contact Sandeep Hiremath ([sandeep.hiremath@mathworks.com](mailto:sandeep.hiremath@mathworks.com)) with any questions or concerns during the judging process.
* Judges are required to install Simulink on a personal machine and have it ready **before Nov 1st 2014**.
* For each entry, judges should use the judging guidelines and criteria as provided below:

**Entry Guidelines**

Ensure that each entry meets these guidelines:

* One entry per team is allowed.
* All teams can participate for the award within their region. There will 1 winner per region.
* Every entry should include the following:
  + 1 Simulink model file
  + 1 video link (use YouTube only [3 minutes max]
* Robot program design should be in Simulink (\*.slx or \*.mdl). Submissions of programs designed using other software will not be accepted. The submitted Simulink file should not be a pre-built example model or the default program. It should be a unique program or a modification of the existing examples or default program.
* The video should be no more than 3 minutes in length and include at least a 1.5 minute overview about the program design (e.g. a screencast of the Simulink model with voice over).

**Judging Criteria**

The award will be given to one team from each region and will be based on the judging criteria and robot performance in the competition. The following criteria will be used for judging each entry:

|  |  |
| --- | --- |
| 1. **Simulink Model** |  |
| **Creativity-** Innovative, creative and original work | 5 pts. |
| **Functionality –** Error-free and adheres to the Gatekeeper game tasks | 10 pts. |
| **Software Design Practices** – Best practices like commenting, block naming etc. | 5 pts. |
| **Difficulty and Mastery** – Level of Simulink knowledge demonstrated in executing the tasks | 15 pts. |
| **Readability -** Clean, organized and easy to comprehend | 15 pts. |
|  |  |
| 1. **Short Video (YouTube)** |  |
| **Creativity** - Interesting, innovative and informative | 10 pts. |
| **Quality of the video** – Video making process and technical execution | 5 pts. |
| **Concept** – Engaging, coherent and appropriate | 15 pts. |
| **Clarity** – Message is clear and well-communicated | 15 pts. |
| **Adherence to Guidelines** - Video length and content on Simulink usage | 5 pts. |
|  |  |
| **Total** | **100 pts**. |

**Scoring Details**

* Each Judge will assess all entries within their region, unless otherwise instructed by the Regional Judging Coordinator.
* Judges will use the official SIMULINK Design Score Sheet to record a score for every entry in their region. The Score Sheet template is available along with the 2014 Awards & Judging documents. Additionally, scoring through the online Judges portal at <http://www.bestinc.org/simulink_judging.php> may be available (**check with your Regional Judging Coordinator**).
* Judges will get access to the online submissions **on Nov 3rd (for Texas), and Dec 1st (for other 3 regions)**. The Regional Judge Coordinator will determine when all score sheets should be completed.
* For every region, all judges are required to submit their own score sheets.
* The final decision of the winner will be made based on the average of judges’ scores.

**Contact Details**

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Greg Young ([greg.young@bestinc.org](mailto:greg.young@bestinc.org))