

## Agenda

Registration starts Juniors and Seniors	10.00 a.m.
Inauguration	10:30 a.m.
Contest/Judges' Round Begins	11:00 a.m.
Welcome address by Program Manager	12.00 p.m.
Prize Distribution	1:00 p.m.
Volunteers Group photograph	1:20 p.m.

## Chapter Board of Executives 2018

Chair	Murad Hussain, M.Eng., P.Eng.
Vice Chair	Lan (Victor) Lin, P.Eng.
Past Chair	Dr. Jega Jeganathan, Ph D., P.Eng.
Secretary	Dr. Javeed Ahmed Khan, P.Eng, SMIEEE
Treasurer	Peng Zhang, P.Eng
Executive	Elvis (Pinjing) Wang, P.Eng
Executive	N. Asogan, P.Eng
Executive	Rajendra Gadhvi, EIT
Executive	Karthiga Thevaseelan, EIT

## 2018 Mechatronics Volunteers

Dr. Jega Jeganathan, Ph D., P.Eng.	Senthil Subramani, P.Eng.
Murad Hussain, M.Eng., P.Eng.	Karthiga Thevaseelan, EIT
Madu Suthanan, P.Eng. FEC	Dr. Santosh Gupta, P.Eng
Peng Zhang, P.Eng	Cherisse Diaram, EIT
Lan (Victor) Lin, P.Eng.	Shinta Gragossian, EIT
Elvis (Pinjing) Wang, P.Eng	Faizan Haider, EIT
N. Asogan, P.Eng	Bala Balasigam
Dr. Javeed Ahmed Khan, P.Eng, SMIEEE	Miles Mailvaganam, P.Eng
Rajendra Gadhvi, P.Eng	Stephan Shatara, P.Eng



## Mechatronics 2018

*Held at*  
**Yee Hong Center**  
*(60 Scottfield Dr.)*

*on*  
**Saturday November 10, 2018**

*Organised by*  
**Professional Engineers Ontario**  
**Scarborough Chapter**

*Program Manager*  
**Javeed Ahmed Khan, Ph.D, PEng, SMIEEE**

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*Mechatronics is a competition designed for school students by Scarborough Chapter and held every year from 2012 to create a passion in the application of electrical engineering, mechanical engineering and Information Technology in solving modern day engineering problems.*

*We thank all our Special Guests, PEO, Other Chapter Guests, Schools, City of Toronto, Yee Hong Center, parents and teachers and above all the participating students and you the audience for making Mechatronics 2018 a successful and fruitful reality.*

### General Rules and conduction of the competition:

1. Car controlled by Arduino is built by students. Car dimensions should be within the accepted limit given on the website.
2. Arduino program supplied by the Scarborough Chapter is reloaded on the Arduino board during the competition time (to check consistency).
3. 3 prizes per category
  - a. Judges Category and
  - b. Performance Category
4. Judges Category evaluation is conducted by the Judges based on Design, Aesthetics and Knowledge.
5. Performance Category evaluation/winners are 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> (based on time to complete the 10 meters track of 1-meter width without guide wires).
6. Cars that don't remain on the track (1-meter width) are disqualified.

### Car dimensions (Mandatory) are:

1. Max. Height – 200 mm
2. Max. Length – 300 mm
3. Max. Width – 150 mm
4. The motor should be powered by 4 AA size batteries
5. The motor should be controlled by an Arduino and the program running on the Arduino should be the one provided by the Chapter

Note: the above rules are applicable to both Juniors and Seniors.

Seniors will be using LED lights to show different patterns (students can choose their own designs) controlled by the Arduino. Marking for Design, Aesthetics and Knowledge will be decided by their patterns, more complex patterns will get higher marks.