MEMORANDUM TO:

OIC-Office of the Assistant Schools Division Superintendent
Chief Education Supervisors, CID and SGOD
Elementary and Secondary School Principals
Officers-in-Charge
Public Schools

ROBULUTION 2019: 1st INTERNATIONAL ROBOTICS
AUTOMATION SUMMIT AND COMPETITION

Attached is Regional Advisory No. 176, s. 2019 dated August 22, 2019
re: Robulution 2019: 1st International Robotics Automation Summit and
Competition on October 10-11, 2019 at the University of Makati, Makati City, content of
which is self-explanatory.

This is issued for information purpose only and not an indorsement of the activity.

JOEL T. TORRECAMPO
Assistant Schools Division Superintendent
Officer-In-Charge
Office of the Schools Division Superintendent

Maka-Diyos, Makatao, Makalikasan at Makabansa
Advisory No. 17G s. 2019
August 22, 2019

In compliance with DepEd Order No. 8, 2013, this Advisory is issued not for endorsement per DO 28, s. 2001, but for the information of DepEd officials, personnel/staff, as well as the concerned public.
(Visit www.deped.gov.ph)

Robulution 2019: 1st International Robotics Automation Summit and Competition

ERovoutika International and in partnership with elite Inc., RoboRAVE International and UBTech will host the Robulution 2019: 1st International Robotics Automation Summit and Competition on October 10-11, 2019 at the University of Makati, Makati City.

The highlights of the two-day event include robotics and automation competition, company exhibits, research exhibits, robotics and automation boot camp, IT workshop and seminars.

For more information, you may contact:
Engr. Bhai Nhuraisha I. Deplomo, MSEcE, MSICT
Event Chair
Cel.No.: 0918364615/09061497307

This is issued for information purpose not an endorsement of the activity.

Work toward excellence... play to win!
Dear Sir/Madam:

Greetings!

We would like to invite your students, faculty members and robotics enthusiasts to attend the ROBOOLUTION2019: 1st International Robotics and Automation Summit and Competition with the theme "Shaping the Universe with Disruptive Technologies of Robotics and Automation" on October 10 and 11, 2019 at the University of Makati. This event is hosted by Erovoutika International and in partnership with Elite, Inc., RoboRAVE International and UBTech, together with invited international plenary speakers to look forward to sharing their expertise in the current trends in robotics and automation from our international partners: RoboRave International (Mexico/USA), UBTech (China), American Robotics Academy - Conroe the Woodlands Spring (USA), STEM Robotics (India), and Adelaide Robotics Academy (Australia).

Highlights of the 2-day event include Robotics and Automation Competitions, Company Exhibits, Research Exhibits, Robotics and Automation Bootcamp, IT Workshop, and Seminars. With this announcement, we would like to invite the brightest minds from the academic and industry in both private and government sector to come together in one place and experience the first ever robotics and automation summit and competition.

The registration fees are as follows:

<table>
<thead>
<tr>
<th>Registration</th>
<th>1-Day Seminar Seminars with Summit Kit and 1 Certificate</th>
<th>2-Day Seminar Seminars with Summit Kit and 2 Certificates</th>
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</thead>
<tbody>
<tr>
<td>Early Registration</td>
<td>Php 550</td>
<td>Php 950</td>
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<tr>
<td>May 1 to June 30, 2019</td>
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<tr>
<td>Registration</td>
<td>Php 650</td>
<td>Php 1,000</td>
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<tr>
<td>July 1 to September 30, 2019</td>
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<tr>
<td>Foreigner Participants</td>
<td>20 USD</td>
<td>20 USD</td>
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**International Workshops Registration Fee**

<table>
<thead>
<tr>
<th>REGISTRATION</th>
<th>1st Session</th>
<th>2nd Session</th>
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</thead>
<tbody>
<tr>
<td>REGISTRATION</td>
<td>Arduino Programming for IoT and MATLAB based hardware implementation</td>
<td>Image Processing Using Matlab and Python (Object identification and object detection robots)</td>
</tr>
<tr>
<td>Early Registration May 1 to June 30, 2019</td>
<td>Php 1,550 per session (With Arduino Kit, Seminar and Certificate)</td>
<td>Php 1,550 per session (With Arduino Kit, Seminar and Certificate)</td>
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<tr>
<td>Registration July 1 to September 30, 2019</td>
<td>Php 1,650 per session (With Arduino Kit, Seminar and Certificate)</td>
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<tr>
<td>Foreigner Participants</td>
<td>USD 60</td>
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**International Robotics Competition**

<table>
<thead>
<tr>
<th>REGISTRATION</th>
<th>1st Session</th>
<th>2nd Session</th>
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</thead>
<tbody>
<tr>
<td>REGISTRATION</td>
<td>Sumobot Competition – Open Platform Category And Yanshee Humanoid Robot Competition - (1-2 members per team + 1 coach)</td>
<td>Micromouse Competition And UKit Explorer Robot Competition - (1-2 members per team + 1 coach)</td>
</tr>
<tr>
<td>Foreigner Participants</td>
<td>Php 5,500 with Summit Kit, Seminar and Certificates</td>
<td>Php 5,500 with Summit Kit, Seminar and Certificates</td>
</tr>
<tr>
<td>Foreigner Participants</td>
<td>USD 100 with Summit Kit, Seminar and Certificates</td>
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</tbody>
</table>

**ROBOTICS COMPETITION PRIZES**

Champion’s Prize – Trophy + Medal + Cash + Surprise Prizes From Sponsors
1st Prize – Trophy + Medal + Cash + Surprise Prizes From Sponsors
2nd Prize – Trophy + Medal + Cash + Surprise Prizes From Sponsors
Best Robot Design – Medal + Certificate
# International Automation Competition

**REGISTRATION**

| Thesis Competition (Research Exhibit and Presentation) | ERovouthon Competition/DRONE Competition (Robotics Challenge) |
| Highschool Category | Highschool Category |
| College Category | College Category |
| Professional/Non-Student Category | Professional/Non-Student Category |

<table>
<thead>
<tr>
<th>Registration</th>
<th>Thesis Competition</th>
<th>ERovouthon Competition/DRONE Competition</th>
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<td>Thesis Competition</td>
<td>ERovouthon Competition/DRONE Competition</td>
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</tbody>
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**AUTOMATION COMPETITION PRIZES**

Champion's Prize – Trophy + Medal + Cash + Surprise Prizes from Sponsors
1st Prize – Trophy + Medal + Cash
2nd Prize – Trophy + Medal + Cash
BEST PROJECT DESIGN – Medal and Certificate
BEST PRESENTER – Medal and Certificate
BEST EXHIBITOR – Medal and Certificate

Additional information and registration about the summit can be found at our website [https://erovoutika.ph/IRASummit2019](https://erovoutika.ph/IRASummit2019). Should you have any questions, please don't hesitate to contact us at 09183634615 or 09061497307.

We look forward to your participation in ROROLUTION2019: 1st International Robotics and Automation Summit and Competition. See you there!

Thank you.

Respectfully yours,

(Sgd.) Engr. Bhai Nhuraisha I. Deplomo, MSEcE, MSICT
Event Chair
Contact#09183634615/09061497307
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:00 A.M.</td>
<td>Registration</td>
</tr>
<tr>
<td>8:30 A.M.</td>
<td>Doxology National Anthem</td>
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<tr>
<td>8:45 A.M.</td>
<td>Opening Remarks</td>
</tr>
<tr>
<td>9:00 A.M.</td>
<td>Plenary Speaker 1</td>
</tr>
<tr>
<td>9:15 A.M.</td>
<td>Plenary Speaker 2</td>
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<tr>
<td>9:30 A.M.</td>
<td>Plenary Speaker 3</td>
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<tr>
<td>9:45 A.M.</td>
<td>Plenary Speaker 4</td>
</tr>
<tr>
<td>9:45 A.M.</td>
<td>Plenary Speaker 5</td>
</tr>
<tr>
<td>10:00 A.M.</td>
<td>Question and Answer Portion</td>
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<tr>
<td>11:00 A.M.</td>
<td>Question and Answer Portion</td>
</tr>
<tr>
<td>12:00 P.M.</td>
<td>BREAK</td>
</tr>
<tr>
<td>1:00 P.M.</td>
<td>Robotics and Automation Tracks</td>
</tr>
<tr>
<td>5:00 P.M.</td>
<td>Robotics and Automation Tracks</td>
</tr>
</tbody>
</table>

**Participants:**

- **Engr. Bhuiya Dibyendu Chandra**
  - Co-Founder, Erovoutika International

- **Mr. Brian Montoya**
  - Co-Founder, RoboRAVE International

- **Mr. Rajasekharan A H**
  - Director, STEM Robotics India

- **Mr. Prince Edike**
  - Data Scientist/Earth Systems Analyst

- **Manal Rifki**
  - PhD Researcher in Fintech
  - Kuala Lumpur, Malaysia

- **Mr. Roger Collantes**
  - CEO and President of Smarter Robotics
PROGRAMME
SEMINARS
October 11, 2019 | Mini Theater University of Makati | 7:00A.M. – 5:00P.M.

7:00A.M. – 8:30A.M. Registration
8:31A.M. – 12:00P.M. ICT Tracks
1:00P.M. – 4:00P.M. Presentation of Research Exhibits for Automation Competition
4:01P.M. – 4:45P.M. Distribution of Certificates
4:46P.M. – 5:00P.M. Closing Remarks

DR. DANilo C. SABADO
CEO and President, Elite, Inc.

Master of Ceremonies

MR. CHRIS DELACRUZ
Co-Founder of American Institute For English Proficiency
PROGRAMME
INTERNATIONAL ROBOTICS COMPETITION and AUTOMATION COMPETITION
October 10, 2019 | University of Makati | 11:00A.M. – 5:00P.M.

Robotics Competition

11:00A.M. – 12:00P.M. Preparation of the Delegates
1:00P.M. – 5:00P.M. UBTech Robots Competition (UKit Explore Robot)
                  Sumobot Competition (Open Platform Robot)

Automation Competition

11:00A.M. – 12:00P.M. Preparation of the Delegates
1:00A.M. – 5:00P.M. Thesis Project Competition
                    EROVouton Competition (Robotics Challenge)
                    Drone Competition

October 11, 2019 | University of Makati | 8:00A.M. – 5:00P.M.
Robotics Competition

8:00A.M. – 12:00P.M. UBTech Robots Competition (Yanshee Humanoid)
                     Micromouse Competition

Automation Competition

8:00A.M. – 12:00P.M. Thesis Project Competition
                     EROVouton Competition (Robotics Challenge)
1:00P.M. – 4:00P.M. Presentation of Research Exhibits (Top 5 Finalists of each category)

For the mechanics of the competitions, please click this link
https://erovoutika.ph/IRASummit2019/competition/
Track 1: International Robotics and Automation Boot Camp
To be conducted by STEMI Robotics Academy, India
October 11, 2019 | Multimedia Room | 8:00A.M. – 5:00P.M.

8:00A.M. – 5:00P.M. Robotics and Automation: Arduino Programming for IoT (Internet-of-Things) and Image Processing Workshops

TOPICS
- Arduino applications in IOT (Home Automation)
- MATLAB based hardware implementation Arduino/Raspberry Pi (Mobile Robots Control Using Matlab)
- Image Processing using Matlab Simulink (Object Identification and Object Detection Robots)

Track 2: Microsoft Technology Associate Certification Track
To be conducted by ELITE, Inc.
October 11, 2019 | Multimedia Room | 8:00A.M. – 5:00P.M.

8:00A.M. – 5:00P.M. Microsoft Technology Associate (MTA) Review Workshop

The Road to MTA Training Course is an 8-hour course that allows participants to explore four tracks of MTA Certification. The Microsoft Technology Associate (MTA) certification is an entry-level credential that validates fundamental technology skills and knowledge among students and job-seekers who are pursuing a career in technology. MTA addresses a wide range of critical technology concepts with exams that are designed to assess and validate core technical concepts in three primary areas: Developer, Database, and IT Professional.

<table>
<thead>
<tr>
<th>Time</th>
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</tr>
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<tbody>
<tr>
<td>7:00 AM - 8:00 AM</td>
<td>Registration</td>
</tr>
<tr>
<td>8:00 AM - 10:00 AM</td>
<td>Database Fundamentals</td>
</tr>
</tbody>
</table>

This learning path helps aspiring database administrators prepare for and pass the Microsoft Technology Associate (MTA): Database Fundamentals exam (98-364)

- Understanding Core Database Concepts
- Creating Database Objects