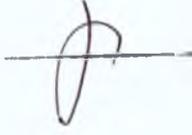


NINETEENTH CONGRESS OF THE )  
REPUBLIC OF THE PHILIPPINES )  
First Regular Session )

'22 NOV 28 A11 :33

SENATE

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Introduced by **SENATOR JOEL VILLANUEVA**

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**RESOLUTION**  
**CONGRATULATING AND COMMENDING THE BATANGAS STATE**  
**UNIVERSITY ENGINEERING STUDENTS TEAM FOR BEING THE**  
**CHAMPION-UNIVERSITY CATEGORY IN THE ENGINEERING**  
**INNOVATION CHALLENGE 2022 HELD IN SINGAPORE**

**WHEREAS**, on 19 November 2022, a team of B.S. Electronics Engineering students from the Batangas State University (BatStateU) were declared as champions in the University Category of the Engineering Innovation Challenge (EIC) 2022 held in Singapore;<sup>1</sup>

**WHEREAS**, the EIC is an annual competition organized by the Institution of Engineers-Singapore and Science Centre Singapore with the support of the country's Ministry of Education. It aims to provide students from different levels of education a better understanding of the important role of engineering in energy innovation and an opportunity to work with professional engineering and business mentors to design or invent a product.<sup>2</sup> The competition commenced in September 2022 and culminated with a demo and awards presentation during the celebration of Singapore's National Engineering Day on 19 November 2022;<sup>3</sup>

**WHEREAS**, the team from BatStateU included Marc James M. Beltran, John Vincent D. Biscocho, Lawrence M. De Castro, Maria Nelly S. Magboo, and Jerico D. Matibag, and were mentored by Dr. Alvin S. Alon, the Head of the Digital Transformation Center at the state university;<sup>4</sup>

**WHEREAS**, their winning innovation project called AI-Aquaphonics-360 used the Internet of Things and Artificial Intelligence (AI) in an intelligent small-scale aquaponics system. This system is used to monitor and control aquaponics parameters, as well as its botanical and zoological components, and is innovatively designed for food sustainability and security through home urban farming. Aside from the monetary award of SGD 8,000.00, the BatStateU team gained valuable lessons from the competition and an

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<sup>1</sup> Batangas State University. *BatStateU Teams bag International Awards in the EIC'22*. Published on 21 November 2022. Available at <https://batstate-u.edu.ph/batstateu-teams-bag-international-awards-in-the-eic22/> (Accessed on 26 November 2022).

<sup>2</sup> Science Center Singapore. *Engineering Innovation Challenge*. Available at <https://www.science.edu.sg/for-schools/competitions/energy-innovation-challenge> (Accessed on 26 November 2022).

<sup>3</sup> Op. cit., BatStateU

<sup>4</sup> *Ibid.*

opportunity to develop their potential in providing an innovative solution for a more sustainable future;<sup>5</sup>

**WHEREAS**, two other teams from BatStateU received Merit Awards in the same category. Their projects are 1) an Intelligence Road Quality Monitoring System with Vibration-Sensing Device and Machine Vision Camera dubbed as “AI-Rover” and 2) “AI 3D SET GO,” an AI-Optimized 3D-Printed Adsorbents Decorated with Waste PET Plastic-Derived Metal-Organic Frameworks for Effective and Sustainable Wastewater Remediation;<sup>6</sup>

**WHEREAS**, the BatStateU, which was rightfully declared as the National Engineering University through Republic Act No. 11694 or the “Revised Batangas State University Charter” signed into law on 11 April 2022, is one of the leading institutions in the country offering world-class academic training to young Filipinos in the field of engineering and science;<sup>7</sup>

**WHEREAS**, the outstanding performance of the engineering students from BatStateU is a testament to the ingenuity and brilliance of young Filipinos and their potential to contribute to the country’s growth and secure its future through their scientific, innovative, and technological researches and product development. They deserve the highest praise, recognition, and commendation for bringing pride and inspiration to the Filipino people;

**NOW, THEREFORE, BE IT RESOLVED BY THE SENATE**, as it is hereby resolved, to congratulate and commend the Batangas State University Engineering Students Team for being the champion in the Engineering Innovation Challenge 2022 held in Singapore.

*Adopted,*

  
JOEL VILLANUEVA *JV*

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<sup>5</sup> *Ibid.*

<sup>6</sup> *Ibid.*

<sup>7</sup> Official Gazette. RA No. 11694 or the “Revised Batangas State University Charter”, Available at <https://www.officialgazette.gov.ph/downloads/2022/04apr/20220411-RA-11694-RRD.pdf> (Accessed on 27 November 2022).