#### CHEDRO-III MEMORANDUM No. 176 s. 2023

AUG 0 1 2023

For

: ALL PRESIDENTS/HEADS OF HIGHER EDUCATION INSTITUTIONS

IN REGION III

Subject

: ROBOQUEST: JOURNEY INTO ROBOTICS-THE FIRST BULACAN-WIDE

ROBOTICS WORKSHOP AND EXHIBIT

Date

: 31 July 2023

This Office endorses the subject undertaking Roboquest: Journey into Robotics-The First Bulacan-Wide Robotics Workshop and Exhibit organized by the Sentrify Technologies Corp, in partnership with its incubator, DOST-BulSU's Business Assistance for Research Acceleration and Sustainability – Technology Business Incubator (BARAS-TBI) to be held from September 9-10, 2023 from 09:00am – 04:00pm at the Valencia Hall, Bulacan State University, City of Malolos, Bulacan.

Target participants are faculty members and students of higher education institutions. Interested participants may register through this link: <a href="https://tinyurl.com/RoboQuestRegistration">https://tinyurl.com/RoboQuestRegistration</a>.

For registration fees and other details, kindly be informed to coordinate directly with Dr. Mary Ann Carranza, Executive Director, Bulacan State University-External Relations and Internationalization through <a href="maryann.carranza@bulsu.edu.ph">maryann.carranza@bulsu.edu.ph</a> or Engr. Christian Lance Arojado, Chief Marketing Officer, Sentrify Technologies Corp. through <a href="maryangle-cparojado@up.edu.ph">cparojado@up.edu.ph</a> or call +639267476065.

For the voluntary participation of all concerned.

Wide dissemination of this memorandum is desired.

MS. LORA L. YUSI Officer-in-Charge Office of the Director IV



July 24, 2023

Ms. Lora L. Yusi Officer in Charge Office of the Director IV CHEDRO III

Dear Ms. Yusi,

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Office of the Director IV

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Greetings of peace and prosperity!

Sentrify Technologies Corp. is a pioneering Research and Development company specializing in Internet of Things, Robotics, and Artificial Intelligence. With a mission to bridge technology gaps across various industries in the Philippines, Sentrify serves as a center of innovations, offering cutting-edge solutions to companies, communities, and organizations. What sets us apart is our commitment to providing unique custom solutions tailored to address the individual problems of each client. Beyond research, our team excels in developing innovative products, catering to entities seeking technical expertise. As a startup incubatee of DOST-BuISU BARAS TBI, we are committed to driving transformative advancements and making a positive impact on our community.

We are delighted to inform you that, following a comprehensive market study on robotics in Region 3, Sentrify, in partnership with its incubator, DOST-BulSU's Business Assistance for Research Acceleration and Sustainability - Technology Business Incubator (BARAS-TBI), along with Department of Science and Technology Regional Office 3 (DOST-RO3), Association of Engineering Youth for Sustainable Innovations - Bulacan State University (AEYSI-BulSU), Startup Leveraging on Opportunities and Network for Growth (SULONG Central Luzon), Combine Power Systems Inc., and Junior Chamber International (JCI Malolos Inc.) will launch a robotics workshop entitled "RoboQuest: Journey into Robotics - The First Bulacan Wide Robotics Workshop and Exhibit" on September 9-10, 2023, from 9:00 AM to 4:00 PM at the Bulacan State University's Valencia Hall. This robotics workshop extends a warm welcome to participants from secondary to tertiary levels, including graduates, working professionals, and freelancers, both within and outside Bulacan province, who possess zero to beginner-level knowledge in robotics.

In line with the aforementioned event, Sentrify respectfully seeks an endorsement from your esteemed office for our forthcoming program, intending to be extended to Higher Education Institutions (HEIs) across Region III. As this event entails a registration fee to ensure its sustainability in the future, we kindly request your support in encouraging HEIs to consider sponsoring the registration fees for select students. We have attached the registration link herewith, and a separate file contains the primer and program flow of the event.

Registration link:

#### https://tinyurl.com/RoboQuestRegistration

We deeply value your unwavering support in our endeavor to offer meaningful events for the Region 3 community, facilitating skill development and valuable experiences in the robotics industry. For any inquiries or concerns about this request, please feel free to contact us via Dr. Mary Ann Carranza, at maryann.carranza@bulsu.edu.ph (Executive Director, Bulacan State University - External Relations and Internationalization) or Engr. Ghristian Lance P. Arojado at cparojado@up.edu.ph (Chief Marketing Officer, Sentrify Technologies Corp.) or at +639267476065. Your collaboration is vital to our shared success.

Sincerely

MS. PATRICIA ANN P. CAMUS

Project Lead, RoboQuest

Noted:

ENGR/CHRISTIAN LANCE P. AROJADO

Chief Marketing Officer, Sentrify Technologies Corp.

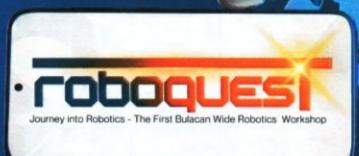
Endorsed:

Recommending Approval:

ENGR. DENNIS R. DELA CRUZ

ENGR. YEOJ VINCENT N. MARIANO

Center Manager, DOST-BulSU BARAS TBI Chief Executive Officer, Sentrify Technologies Corp.



September 9 - 10, 2023

Bulacan State University's Valencia Hall

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### Welcome to RoboQuest:

Journey into Ribbotics - The First Bullican Wide Robotics Workshop, proudly presented by DOST BUSIL BANKS TBI, the lead startup entabler in the province of Busican and Sentify Technologies Corp. re-nowhed experts in the field of robotics and pioneers in IoT solutions. Get ready to embark on an extraor-divery learning experience!

This five-day workering is designed to ignite your passion for robotics, whether you're a college or high school student. It graduate, a professional, or an enthusiast from any background. Regardless of where you're from you're instead to our us sind days into the background several or obvious.

Immette yourself in hands-on experiences, gain expert insights, and unlock the boundless potential that stabilities technology offers. In our sessions, you will be introduced to the foundations of inputies, learn about real-world applications that are invading industries, and exports the diverse career opportunities available in this excitoral feet.

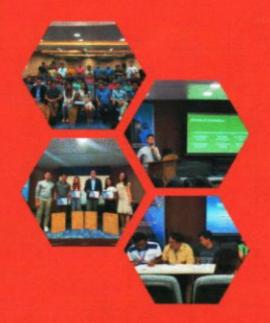
Confirms the apparanty to enhance your skills, expend your knowledge, and be at the farefront of the robotics revolution. Join us and be a part of Robotiuest, where ancovation meets invariable of



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# **DOST - BuISU BARAS TBI**

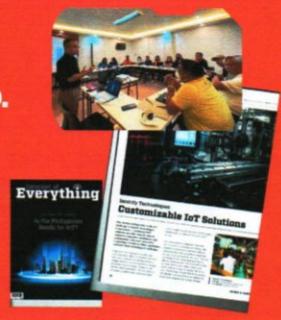
DOST-BuSU BARAS TBI has been mentoring over 20 groups of technopreneurs working on various societal challenges. It offers startups necessary resources and support they need to evolve and grow into a mailure business. BARAS TBI currently generates a total income of 2M Phip and counting. Contributing to the harmony towards the startup ecosystem by being an enabling soil for the seading of business triumpin.

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# Sentrify Technologies Corp.

Development company at the foretrent of Internet of Things, Robot los, and Artificial Intelligence. With a proven track record of crafting custom IoT soutcons for companies and providing essential support to researchers through prototypes and minimum viable products, Sentify's expected is recognized far and wide. Receptly teatured in the prestigious "Internet of Everything" magazine, the first lot business tech publication in the Philippines. Sentiny continues to lead the charge towards a more advanced and connected future.





# **WORKSHOP HIGHLIGHTS**



### Step into the Future of Robotics!

- Guided by distinguished industry teaders, and experts from various departments.
- Get inspired during the Keynote Address by regional directors and visional specifiers.
- Discover Real World Robotics Applications presented by Sentrify Technologies Corporation. Department of information Communications Technologies Communications Technologies and Technology Institute, and explore exching careers in robotics.

### Forge Valuable Connections!

- Engage in an Open Forum with representatives from the involved renowned departments to expand your network and knowledge.
- Connect with the minded enthusiasts and experienced mentors to build a alread robotics community

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### **WORKSHOP HIGHLIGHTS**



### Master the Skills of Robotics!

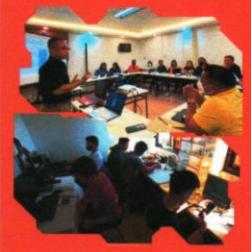
- Our expert instructors will guide you through interactive sessions on robotic assembly, Arduino programming, and much more.
- Gain hands on experience and create with robotics.

### Celebrate Your Accomplishments!

 Receive well-deserved certificates as a recognition of your decloacen and exoritionice recognized by the partner companies, organizations, and depart ments.

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# Unique Edge of RoboQuest



#### Pioneering Robotics Projects: Explore the Future of Robotics!

Engage with hands-on robotics assembly, immersing yourself in the future of robotics and igniting your creativity to drive ground-breaking solutions.

#### Success Stories That Speak Volumes: Unlock Your Robotics Potential!

Transform into successful robotics professionals with testimonials reinforcing the workshop's impact on individual growth and career development.

# Thriving Industry Partnerships: Connect with Tech Titans!

Access industry trends and technologies, and expand your professional network in the robotics field.

#### Community Building: Connect with People of the Same Interest

Join a vibrant network of like-minded individuals, attendees, and experts, fostering collaboration, mentorship, and continuous learning in robotics.

Join RoboQuest - Your Gateway to the World of Robotics!

#### Day One: Arduino | September 9, 2023 | 9:00 AM - 4:00 PM at Bulacan State University, Valencia Hall

815 AM - 9:00 AM	Arrive and Regelators
900 AM - 9:20 AM	Institution & National Arthum By Buscari State University Soring Hing
920 AM - 930 AM	First Christian Larce P Answer
930 AM - 9:40 AM	Dr. Certifu Nanasero-Goscue
940 AM-950 AM	Intermission Number By Buscon State University Soring Hima
9:50 AM-10:05 AM	Emp Antonic Edward E. Pulas
10:05 AM-10:10 AM	Asserting of Dertholite to the Regions Spraker
10:10 AM - 10:25 AM	to Broke Actoly
1025 AM-1040 AM	Session 1: "Production to Rotolous" by DICT RC0
1040 AM-1045 AM	Afty Engelliert C. Carpnur, Jr.
THIS AM-TEOD AM	Senior 2: Year World Rebotion Applications' by DOST AST
TEOD AM - TEOS AM	Half, Emmanuel Josef Josef Williams
11:05 AM - 11:20 PM	Season 3: "Careers in Robotics" by 1ESCA.
TE20 AM - TE50 AM	Open Forum with DCT PGB, DOST ASSULA 1690A
TESO AM - 12:00 PM	Awarig of Certifolies
1200 PM - 100 PM	Lincolarioteniusky
100 PM - 4:00 PM	Planting Tree view View
4:00 PM	Closing of Day 1

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#### Day Two: Robotos Assembly | September 10, 2023 | 900 AM - 400 PM at Bullacan State University, Valencia Hall

Arrive and Registration
Invocation & National Anthern (AVP)
Engr. Dermi H. Deia Crus
Hon Elertel Nametry Fernancko
Noyelli-Asirille Ms. Angellia G. Perungee Promost Discote Department of Science and Technology: Busine
Montgar of Sugaret from Antonic
Mr. anchus Satrador
Avading of Certificials
Marien. De Marien C. Leyens.
Linchard Netrolog
Manage. De Marton C. Leyeux
Po Verten Rasillo
Awarding of Sovicial Certification
Chargi Fernans: Ms. Patricia Ann R. Carrus Project Leader of RoboQuest Fernar Printers State University Scotar Government (2020-2021)
Prot-Sporters and Rendboard

# **Workshop Topics**

## Session 1: Introduction to Robotics

Get ready to dive into the exciting world of robotics! In this session, we'll provide you with a solid foundation in robotics, focusing on the local robotics landscape in the Philippines. Discover the principles, components, and basic concepts behind building and programming robots, and explore how robotics is shaping industries and communities in our country.



# **Session 2: Real-World Robotics Applications**



Unleash your imagination as we explore real-world robotics applications with a special emphasis on the Philippines. From healthcare to agriculture, manufacturing to disaster response, discover how robotics is making a significant impact on various industries in our local context. Gain insights into the innovative projects and initiatives happening right here in the Philippines.

# Session 3: Careers in Robotics

Discover the wide range of exciting career opportunities in the field of robotics, specifically within the Philippines. Whether you're passionate about research and development, programming, engineering, or even entrepreneurship, explore the local landscape and learn about the skills and qualifications needed to succeed in the dynamic robotics industry in our country.



# Session 4: Basic Arduino Programming



Take your robotics skills to the next level with this hands-on Arduino programming session. Learn the fundamentals of coding and how to program the Arduino microcontroller board, with a focus on applications relevant to the Philippine robotics scene. Acquire the essential programming skills needed for advanced robotics projects in our local context.



# **Session 5: Robotics Assembly: Line Following Robot**

Discover the wide range of exciting career opportunities in the field of robotics, specifically within the Philippines. Whether you're passionate about research and development, programming, engineering, or even entrepreneurship, explore the local landscape and learn about the skills and qualifications needed to succeed in the dynamic robotics industry in our country.



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Meet Yeoj, a remarkable prodigy in the realm of technology. His odyssey in computer programming began at the tender age of 13, where he swiftly emerged as a virtuoso. From crafting a Siri-like digital assistant to crafting immersive games, his passion for innovation flourished. As a revered student ambassador for Virtual Reality Philippines, he honed his mastery of cutting-edge technologies.

> During his Bachelor's degree in Mechatronics Engineering. Yeoj delved into microcontroller programming and developed a floor-cleaning robot, igniting his fascination with robotics and sensor-based devices. Alongside his studies, he engaged in international organizations and tutored career shifters and young professionals in computer programming.

Yeoj brings a trove of erudition, experience, and leadership to the realm of robotics.

Trainer's Profile:

Engr. Yeoj Vincent N. Mariano

Robotics Innovator & Tech Expert

Join us in this workshop to bask In his expertise and unlock your own potential in the enthralling realm of robotics.

Rates:

-obdques

Standard Fees starts on the 12th of August, 2023 Regular Fee

Php 2,500

EARLY BIRD DISCOUNT

on the 11th of August, 2023

Promo Ends

Php 2000



### **Payment & Registration**

Instruction: Participants, please carefully read and follow the instructions provided. Kindly note that our no refund policy is in effect. We kindly request you to thoroughly review the provided bank details to ensure accurate payment and avoid errors. Your attention and cooperation are greatly appreciated.

Payment Details:



Metrobank





GCASH Yeoj Vincent N. Mariano 09366125787 Metrobank Christian Lance P. Arojado 5423542256142

BPI Yeoj Vincent N. Mariano 1259491807 LandBank Cherisse Ann J Dionisio 0537 0376 60

#### Verification Process

After making the payment, keep your proof of payment ready for verification. Our team will review your payment and confirm your registration via email or text message.

If you have selected the installment plan, you can pay half of the registration fee ino later than August II, 2023 and settle the remaining amount before or on August 30, 2023. Rest assured that we will send you a reminder with the payment details three days before the deadline.

Registration Link and QR CODE

https://tinyurl.com/RoboQuestRegistration





#### **BulSU Gate 1**

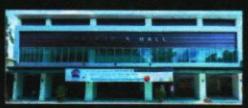


#### Heroes Park to Valencia Hall



### 3 Main Drop offs

Malolos Capitol, **BulSU Main Gate,** & Xentro Mall



Venue Location: Valencia Hall, Bulacan State University

Address: Bulacan State University, McArthur Highway, Brgy, Guinhawa, Malolos, Bulacan

### If you are coming from South:

#### 1. Cubao

- Terminals have a 24 hour schedule. Bus fare: Ptp 65 to Ptp 95
  First North Luzon Transit located at the corner of Aurora Boule
  Victory Liner Bus Terminal: located at the corner of Aurora Box
- Makolos Central Terminal UV Express : along Aurora Bouli
   Anvin UV Express : near SM Cubao

is have 4:00am - 10:00pm Bus and UV express travel echedale on ed at the ground floor of SM North EDSA. Bus Fare: Php 70 to Php

- itus Terminal nas Grace Transport os Maritao UV Express , SM North Malolos UV Expre

### If you are coming from North:

 Dosu, Malbala-cat Pempangs
 Wictory Liner
 Dosument Tolk Place
 Piret North Luson Transit
 Victory Liner All located at Robinsons Sta Victory Liner, GV Florida Tra 2. San Fernando 3. Tarks: City Bus | located along McArthur His Victory Lines, Genesis Trem and Five Star Bus Company

#### engers outside Bulacars

1. Reach the following places that have direct Bus & UV Terminals going to Majolos Bulacon

2. Once you are in Malolos, the drop-off points are Malolos Capitol, BulSU Mai Gate, and Xentro Hall. They are all located next to each other.

#### 2. Caloocan

inals have a 24 hour schedule. Bus fare: Php 60 to Php 90

- Victory Liner Bus Terminal: located along Rizal Avenue Extensi
- + First North Luzon Transit: along EDSA
- Ballwag Transit Bus Terminal Grace Park; along EDSA.
- \* Depare UV Express : along Sizal Avenue Exte
- · Grace Park UV Express : near SM Grace Park
- + Peco UV Express : near Paco Market

### If you are within Bulacan:

Reach the following places and take a jeepney going to Malolos, dropping off at BulSU. All of these places will pass by BulSU. Jeepney Fare: Php 15 to Php 23

1. Planidel Crossing: Jeep terminal ricle going directly to Malolos, drop off at BulSU gate 3 2. Eurobake Tikay, Malolos : Jeep (Malolos Capitol or Calumpit sign) drop off at BulSU Main Gate

#### Accommodations Near BulSU

VR2C+8M5, MacArthur Hwy, Malolos, Bulacan (044) 796 5045

VRH7+5W7, Malolos, Bulacan

Blk 75 Lot 16 Ph 2, 2nd Elm St., Woodlands of Grand Royale Subd,

ille Apartelle, Maloios, 3000 Bulacan

RRWG+502, MacArthur Hwy, Malolos, 3000 Bulacan (044) 791 5129

BulSU Grounds, 3000 MacArthur Hwy, Malolos, Bulacan (044) 791 9797

32 Fausta Rd, Malolos, Bulacan 0917 566 8159

17 Catmon Rd, Malolos, Bulaca (044) 791 7416

### **TESTIMONIALS**



Mr. Aldrian Austria showcasing a wirelessly controlled environment monitoring system which he helped develop.



Engr. Austria, when he was just a student, working diligently on testing the robbery-detecting AI prototype with the guidance of Sentrify. "Participating in the Internship program of Sentrify is challenging because of unfamiliar things I encountered such as using components that were new to me and fun because I am able to solve these problems, and learn new things. These experiences are the kind of things I will not forget and will carry it in my journey to have a better career."







Mr. Jan Kenneth Del Rosario (guy in red shirt) starting the morning of work with his team.



"Sentrify has been instrumental in my understanding of IoT Embedded systems, providing comprehenaive embedded system solutions that automates critical devices and data. Their intereship program has enabled me to confidently navigate the complexities of IoT, emphasizing the vital importance of robust embedded systems measures in

Aldrian Austria Former loT System Developer Trainee

"Thru Sentrify's guidance, we made it possible to create a robbery-detecting Al for our thesis that became the best thesis in our computer engineering batch at Bulacan State University."





# In Partnership with



Combine Power Systems, Inc.



Bulacan State University



BARAS TEN



Department of Science and Technology (Region 3)



SULONG Central Luzzon



AEYSH-BullSU



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Day One: Arduino I September 9, 2023 I 9:00 AM - 4:00 PM at Bulacan State Univesity, Valencia Hall

8:15 AM - 9:00 AM

Arrival and Registration

9:00 AM - 9:20 AM

Invocation & National Anthem
By Bulacan State University Saring Himig

9:20 AM - 9:30 AM

Opening Remarks:

Engr. Christian Lance P. Arojado

> Chief Marketing Officer, Sentrify Technologies Corp.

9:30 AM - 9:40 AM

Welcome Address:

Dr. Cecilia Navasero-Gascan

> University President Bulacan State University

9:40 AM - 9:50 AM

Intermission Number By Bulacan State University Saring Himig

9:50 AM - 10:05 AM

Keynote Address:

Engr. Antonio Edward E. Padre

Regional Director. Department of Informati and Communications - Regio



10:05 AM - 10:10 AM

Awarding of Certificate to the Keynote Speaker

10:10 AM - 10:25 AM

Ice Breaker Activity

10:25 AM - 10:40 AM



# Introduction to Robotics

Session 1 by DICT

10:40 AM - 10:45 AM

Message of Support:

Atty. Engelbert C. Caronan, Jr.

President and CEO, Development Academy of the Philippines

10:45 AM - 11:00 AM



**Real-World Robotics Applications** 

Session 2 by DOST-AST

11:00 AM - 11:05 AM

Message of Support:

Hon. Emmanuel Joel Jose Villanueva

Senator, Republic of the Philippii

11:05 AM - 11:20 PM



# Careers in Robotics

Session 3 by

11:20 AM - 11:50 AM

Open Forum with DICT RO3, DOST-ASTI, & TESDA

11:50 AM - 12:00 PM

**Awarding of Certificates** 

12:00 PM - 1:00 PM

Lunch and Networking

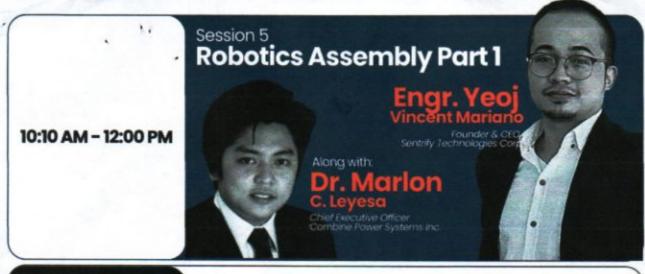
1:00 PM - 4:00 PM

Session 4 Basic Arduino

Founder & CEO, Sentrify Technologies Corp

4:00 PM

Closing of Day 1



12:00 PM - 1:00 PM

Lunch and Networking



1:00 PM - 3:00 PM

3:00 PM - 3:10 PM

Summary & Reflection from the Workshop:

# Ms. Verlyn Basilio

President, Association of Enginee Youth for Sustainable Innovations Bulacan State University (AFYSI-Bulsion

3:10 PM - 3:20 PM

Awarding of Special Certificates

3:20 PM - 3:30 PM

Ms. Patricia
Ann P. Camus

Project Leader of RoboQuest Former President, Bulacan State Universit Student Government (2022-20

3:30 PM - 4:00 PM

Photo Opportunity and Homebound