



Republic of the Philippines
Department of Education
Region VII, Central Visayas
DIVISION OF CITY SCHOOLS – TAGBILARAN
City of Tagbilaran



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DepEd Tagbilaran City Division Advisory
October 22, 2019

(In compliance with DepEd Order No. 8, s. 2013, this advisory is issued for the information of DepEd Officials, Personnel/Staff, as well as the concerned public.)

DISCOVERY WEEKEND CARAVAN: ARDUINO DEVELOPMENT

1. Per DepEd RO7 Advisory No. 177, s. 2019, dated October 15, 2019, this Office hereby disseminates the communication from Ian Fel Larioza, Founder and Director of Cloudline Technologies Inc. – CreateLabz inviting all public and private STEM teachers and students in the region to participate in the seminar workshop on the **Discovery Weekend Caravan: Arduino Development** on October 26, 2019 at Workp[lace Café Co-Working Space, R. Duterte St., Banawa, Cebu City.
2. Participation of all interested and concerned personnel is for **Official Time Only**, and is subject to the provisions of DepEd Order No. 28, 2001 entitled "Prohibiting the Commercialization of the DepEd Organization through Endorsements and Accreditation of Goods and Services", and DepEd Order No. 9, s. 2005 entitled "Instituting Measures to Increase Engaged Time-On-Task and Ensuring Compliance Therewith or Non Disruption of Classes Policy and All Other Existing DepEd policies, regulations and ensuring compliance therewith
3. Attached is the communication for your reference.
4. For information of all interested and concerned parties.


NERI C. OJASTRO Ed D, CESE
Schools Division Superintendent

DepEd R7 Advisory No. 177, s. 2019
October 15, 2019

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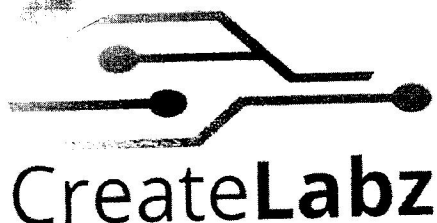
DISCOVERY WEEKEND CARAVAN: ARDUINO DEVELOPMENT

1. This Office is hereby disseminating the communication received from Ian Fel Larioza, Founder and Director, Cloudline Technologies Inc.-Createlabz, inviting all public and private STEM teachers and students in the region to participate in the seminar workshop on the **Discovery Weekend Caravan: Arduino Development** on **October 26, 2019** at **Workplace Café Co-working Space, R. Duterte St., Banawa, Cebu City**.
2. The communication is attached for further reference.
3. For the information of all interested and concerned parties.

CLMD
STJ/CAE/MJCD/carj



10/16/19



CloudLine Technologies Inc.

TIN: 009-732-537-000

Door 7, EC Business Center, 357 C.M. Recto St.

Davao City 8000 Philippines

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hello@createlabz.com | www.createlabz.com

October 8, 2019

Dr. Salustiano T. Jimenez, LL.B., CESO V
Regional Director
DepEd Region VII,
Central Visayas

Dear Sir,

Greetings!

CreateLabz is one of the leading enablers of robotics and IoT (Internet of Things) learning and development in the Philippines. We do this by (1) offering training through meetups, workshops, and campus tours; and (2) providing our next generation of innovators (students, hobbyists, and professionals) the tools and kits to develop practical solutions to everyday problems using technology. We have conducted several robotics workshops for DepEd Davao Region for the past year.

In line with this, we have an upcoming workshop **Discovery Weekend Caravan: Arduino Development** this **October 26, 2019 at Workplace Cafe Co-working Space, R. Duterete St., Banawa, Cebu City**. We are inviting your STEM teachers and students who are interested to learn and practice robotics using the Arduino platform.

This is a whole-day seminar workshop designed for beginner to intermediate users of Arduino. It integrates technical lectures with hands-on experience, and aims to equip participants with essential skills for Arduino programming and interfacing with different devices like sensors, displays and motors, necessary for building robotics applications. The regular registration fee is **P2,399** and a discounted fee of **P2,099** for students. This is inclusive of certificate, updated Arduino Starter Kit, and 4-hour access coupon to CreateLabz Makerspace. Workshop is from 8:30 AM to 5:00 PM.

For more details and to register online, please check <https://createlabz.com/academy/#dw-caravan-arduino>

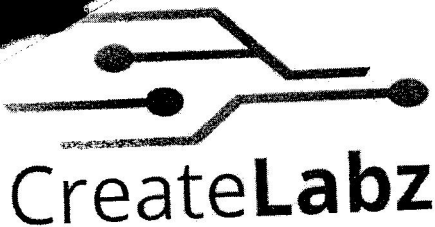
Attached is the program for **Discovery Weekend Caravan: Arduino Development**. Should you have clarifications, please do reach us at +63 995 019 8104 or (082) 225 3463. To know more on what CreateLabz is doing to fast track embedded learning, you may visit www.createlabz.com/academy or www.facebook.com/createlabz.

Yours sincerely,

Ian Fel Larioza

Founder and Director

Cloudline Technologies Inc. – CreateLabz



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Discovery Weekend Caravan: Arduino Development

26 October 2019

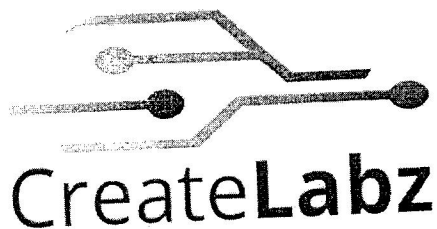
Workplace Cafe Co-working Space, R. Duterte St., Banawa, Cebu City

- What's Included: 1-day expert-led workshop + Certificate + FREE updated Arduino Starter Kit + FREE 4-hour access coupon to CreateLabz makerspace
- Heads-up:
 - Workshop duration 8:30AM-5:00PM
 - Pre-registration is required to reserve your slot
 - Workshop is for beginner to intermediate users of Arduino
 - (Required) Bring your own Laptop computer with the latest Arduino IDE installed (<https://www.arduino.cc/en/Main/Software>)
 - Please be on time so we can finish more activities

Workshop Outline*

- Introduction to Arduino Development Platform (Hardware and IDE Software)
- Basic Analog and Digital Electronics Concepts
- Arduino Input/Output: Analog and Digital Pins
- C/C++ Programming Concepts
 - Data Types, Identifiers, Syntax
 - Loops and Conditionals
 - Functions, Header Files, Libraries
- Polling-based and Interrupts-based development
- Special Pin Functions
 - UART Serial
 - I2C and SPI
 - Interrupts
- Play: Breadboard and Jumper Wires
- Play: Basic (LEDs, resistors, potentiometer, buzzer)
- Play: Display (LED Matrix or LCD or 7-Segment)
- Play: Sensor (Temperature & Humidity, Joystick)
- Play: Actuator (Relay, Servomotor or DC motor)
- Play: Wireless (RFID reader/tag, IR remote control or bluetooth)

**Workshop Outline may change without prior notice*



UPGRADED ARDUINO STARTER KIT

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Package Included:

- 1 X Arduino UNO Board
- 1 X USB Cable
- 1 X Jump Cable
- 1 X Breadboard
- 5 X LED Light
- 1 Pack Resistor
- 1 X Female to male dupont jumper wire
- 1 X Potentiometer
- 1 X Buzzer
- 1 X 74HC595
- 1 X Infrared receiver
- 1 X LM35 temperature sensor
- 1 X Flame Sensor
- 1 X Ball Switch
- 1 X Photoresistor
- 1 X Key button
- 1 X Remote control
- 1 X 4-digit display tube
- 1 X 8*8 Dot matrix module
- 1 X 1-digit display tube
- 1 X Stepper motor driver board
- 1 X Stepper motor
- 1 X 9g Servomotor
- 1 X I2C 1602 LCD module
- 1 X XY joystick module
- 1 X Temperature module
- 1 X Water test module
- 1 X RFID Module
- 1 X RFID keychain
- 1 X RFID White card
- 1 X Sound Module
- 1 X Relay Module
- 1 X Clock Module
- 1 X 4*4 Key board
- 1 X RGB 3 color module
- 1 X 9V battery Snap

