EPS Student Chapter Subsidised Activity Report

Student Chapter Name: IEEE SUTD Student Branch
Student Chapter Code: SBC15551C (EP21)
Submitter’s Name: Sheikh Salim
Submitter’s Email: sheikhsalim@mymail.sutd.edu.sg
Chapter Faculty Advisor: Nagarajan Raghavan
Chapter Faculty Advisor Email: nagarajan@sutd.edu.sg
IEEE Section: Singapore Section
IEEE Region Number: 10
Date submitted: 22/5/2019
REPORT ON ACTIVITY #1

Title: SUTD IEEE Annual General Meeting
Category: Administrative
Date(s): 28/11/2018

Description: (Please give brief details of activity below and the benefits of the activity)

Activity Involved:
Handing over ceremony for new Executive Committee Members of SUTD IEEE Student Chapter
Review Session for 2018

The purpose of the event was to reflect what the club has done in the past year, introduce the new executive committee and chart the direction of the club for 2018.

Attendance:
Number of IEEE/EPS member attendees: 25
Number of Non-IEEE Member attendees: 0
Number of EPS Student Member attendees: -
Number of Non-EPS Students: -
Total: 25

Funding: None
Please attach photographs of activities below if available (add more pages if necessary):
REPORT ON ACTIVITY #2

Title: Introduction to Python Programming and Pygame

Category: Technical (Workshop Series)

Date(s): 30/01/2019, 13/02/2019, 20/02/2019

Description:
The purpose of this workshop series is to expose our members to the fundamentals of Python programming and understanding programming logic (for members new to programming). Pygame was selected to allow members to understand the use of APIs.

The workshop allows our members to be more well rounded, exposing them to new modalities beyond electronics alone. In addition, the workshop functions as a prelude for our members to understand programming of the Raspberry Pi (a future course)

Attendance:
Number of IEEE/EPS member attendees: 10
Number of Non-IEEE Member attendees: ~ 30
Number of EPS Student Member attendees: 3
Number of Non-EPS Students: 7
Total: 35 (average per session)

Funding: None
REPORT ON ACTIVITY #3
Title: Window Form Application Design
Category: Technical (Workshop Series)
Date(s): 27/02/2019, 06/03/2019, 20/03/2019
Description:

The purpose of this workshop is to educate members about the core essentials of UI design in Window Form Applications. The workshop also serves as an exposure to front-end programming as it is based on the same principles.

The workshop equips our members with an added advantage towards understand front-end programming and exposes our members to programming using Visual Studio IDE, an essential tool in programming.

Attendance:
Number of IEEE/EPS member attendees: 7
Number of Non-IEEE Member attendees: 0
Number of EPS Student Member attendees: 1
Number of Non-EPS Students: 0
Total: 7 (average per session)

Funding: None
REPORT ON ACTIVITY #4
Title: Interfacing with Kivy
Category: Technical (Workshop Series)
Date(s): 21/03/2019, 27/03/2019, 03/04/2019
Description:

The workshop, in line with the university’s curriculum, aims to educate attendees on rapid application development using Python’s Kivy Module. In addition, we educated members on the use of various APIs such as Google’s Firebase API for database management.

The workshop equips our members with an added advantage towards understanding front-end programming and allows our members to present their project ideas through eloquent User interface. In addition, the workshop educates on more advanced practices in programming (such as classes, class inheritance and state machines).

Attendance:
Number of IEEE/EPS member attendees: 13
Number of Non-IEEE Member attendees: ~28
Number of EPS Student Member attendees: -
Number of Non-EPS Students: -
Total: 40 (average per session)

Funding: None
Please attach photographs of activities below if available (add more pages if necessary):
REPORT ON ACTIVITY #5
Title: PCB Design with KiCad
Category: Technical (Workshop Series)
Date(s): 09/05/2019, 10/05/2019
Description:

The workshop aims to educate the general school population on other PCB Design alternatives. Tapping on KiCad open source design software, the workshop educated attendees on layer management, routing and other core essentials of successful PCB designing

Through the workshop, members are exposed to the fundamentals of PCB Design and are able to better appreciate the PCB design process. In addition, members are now able to confidently manufacture their own PCBs with the resources shared during the sessions

Attendance:
Number of IEEE/EPS member attendees: 1
Number of Non-IEEE Member attendees: 27
Number of EPS Student Member attendees: 0
Number of Non-EPS Students: 27
Total: 28 (across 2 repeated sessions)

Funding: None
Please attach photographs of activities below if available (add more pages if necessary):
As part of our social outreach programme, a collaboration was done with SUTD Rotaract club to organise a basic ‘Fundamentals of Programming’ session for less-fortunate children from Xin Yuan Community Care. The session involved the use of Micro Bits, loaned out from one of SUTD’s faculties.

Through the session, we were able to share our expertise in the fields of programming and electronics and able to do our part in advancing technology for humanity by providing an opportunity for underprivileged children a unique opportunity at learning programming.

**Attendance:**
Number of IEEE/EPS member attendees: 5
Number of Non-IEEE Member attendees: 13 (organiser + facilitator) + 18 children
Number of EPS Student Member attendees: 1
Number of Non-EPS Students:
**Total:** 36

**Funding:** None
Please attach photographs of activities below if available (add more pages if necessary):