



**Robotics & Automation Society**  
**Tampa Bay Chapter**  
*"Learn, Do, Teach"*

**Minutes of the 05/21/2014 IEEE Tampa Bay RAS Meeting**  
(Prepared by Sean Denny, Chair and Recording Secretary)

Location: Largo STAR Center Corner of Bryan Dairy and Belcher

7887 Bryan Dairy Road Largo, FL 33777

Date: May 21, 2014

Time: 6:00pm to 7:15pm

The Tampa Bay Chapter of IEEE's Robotics and Automation Society held the May meeting jointly with IEEE WIE and SP/Comm Chapters at the Largo STAR Center in Largo, FL. The IEEE RAS Chapter plans to execute on the Vision of the Chapter's Founder, George Schott to "Learn, Do, Teach".

There were a total of 24 people made of 19 IEEE members, 0 Students, and 5 guests present.

**OFFICER ROLL CALL:**

- o Chairman - Sean Denny
- o Treasurer - Jim Cavanaugh

**PRESENTATIONS:**

**A) RASBERRY PI MODULE INTRODUCTION**

Speaker: Isabelle Laureyns is VP of Manufacturing at Fill-Tech Solutions, Inc. in Largo, FL.

Abstract: The Raspberry Pi is a wonderful single board computer that fits in the palm of your hand with over 2 million units delivered. The Raspberry Pi foundation released the Raspberry Pi with the intention of promoting basic computer science education in schools. Due to the affordable price of the boards, from \$25, it has become a powerful tool for hobbyists that want to run a home media center, a VPN, do home automation and a lot more. The Raspberry Pi is slowly turning into a dessert of choice for engineers as they turn them into industrial PCs, Ethernet monitoring, and industrial control applications.

In this talk we will cover basics of how to configure and install the operating system and how to run a simple program.

The Raspberry Pi Charitable Foundation, Founded in 2009, wanted kids in the UK to learn how to program and make computers accessible and fun. They developed a Credit card sized computer system on a chip to plug into a TV for HDMI. Raspberry Pi uses open source software used for UAV, Home or Robotics Automation, Signal Processing, Spreadsheets, Word Processing, Automotive, GPS, Gaming, etc...

Applications like MathWorks, Wolfram Mathematica, and Scratch will run on a Raspberry Pi system. It can handle Arcade Games to Webcam, print server or media streamers.

It can be programmed in C, C++, or Python (Educational Language). Uses Linux OS and powered by a Micro USB and it is setup on a static IP address which connects via SSH.

Gertboard is a GPIO expansion board for the foundation of electronics.

SWAG: Case or camera, PI Glow, Touchscreen

The available Models:

Model A at \$25 includes one USB and 256 K RAM

Model B at \$35 includes two USB and 512 K RAM

B) RAS CHAPTER CALENDAR

The Chapter Meeting dates for the remainder of 2014 are:

June 17-Robofest Review with Emma Alaba, Drew Davis, and Laura Spence

***Note: Announcements in the IEEE Signal Newsletter are due two months before the event.***

C) TREASURER:

Treasurer Jim Cavanaugh reported we have our balance to \$160 all deposits.

Adjourned at 7:15pm.

Respectfully submitted by

Sean Denny,

Tampa Bay IEEE RAS Chapter Chair

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