"Weekend Workshop on Creating USB Devices"
by **Anil Pugalia**

Day 1

+ Session 1: USB Framework Refresher
- Types of USB Device Drivers
- USB Subsystem & Verticals
- USB Protocol & Device Layout

+ Session 2: Linux USB Gadget & Host Drivers
- USB Gadget Driver Mechanism
- USB Host Driver Mechanism
- USB Core & Hot Plug n Play
- USB Transfer Functions
- Integration with a Vertical

Day 2

+ Session 3: BBB as a USB I/O Device
- First take at a USB Gadget Driver
- Getting down to the hardware of BBB
- Controlling using custom USB Host Driver & App

+ Session 4: BBB as standard USB Devices
- Creating as standard USB storage device
- Creating as standard USB network device

+ Wrap Up
- Conclusion
- What Next?

Caution: All sessions are highly interactive & hands-on with hardware

Hands-On Details

+ BBB as a USB Device
- Creation of a USB device
- Detection of a USB device
- Auto-probing of a USB device

+ BBB as a USB I/O Device
- Control operations for LEDs & I/O of BBB
- I/O Extensions to the PC

+ BBB as a USB Memory Device
- Mapping BBB's storage as a USB storage device

+ BBB as a USB Network Device
- Creating a network interface over the USB cable