

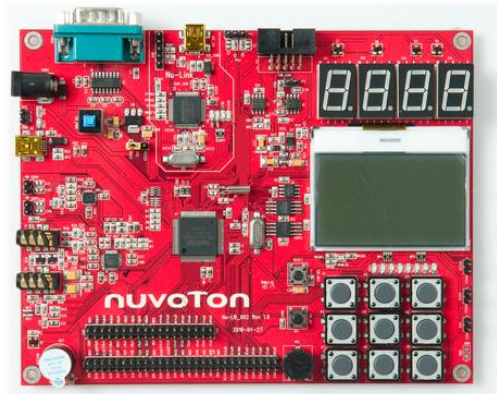
Faculty Training Program on “NuMicro ARM Cortex-M0 and its Applications” (32 bit Microcontroller)

Date: 18 – 19 January, 2014

Venue: BISAG, Gandhinagar

A Faculty Development Training program was organized by GTU in association with Nuvoton Technology Corporation, Taiwan on 18 – 19 January, 2014.

With the growing importance of the embedded systems, the need to design embedded applications with micro controllers having advanced features is gaining prominence. ARM, an Advanced RISC Machine is emerging as one of the prominent standard for embedded RISC processing across communication, networking, consumer, portable, automotive and multimedia application markets.



ARM offers an array of cores, architectural extensions, microprocessors and system-on-chip (SoC) solutions, all using common software architecture. There is a growing need for embedded engineers to understand and work with the ARM Processor Family Architecture and software development tools. This 2-day workshop will enable participants to understand ARM Cortex-M0 architectures, its programming and its various peripherals.

To update GTU faculty with latest in embedded systems and giving them opportunity to work with latest 32 bit microcontroller systems, Nuvoton Technology Corporation developed a two day program. Nuvoton Technology Corporation (NTC) was founded to bring innovative semiconductor solutions to the market. Nuvoton Technology focuses on development of analog/mixed signal, microcontroller, cloud and computing products and has strong market share in Industrial, Consumer and Computer markets. Nuvoton owns a fab, featuring customized processes for analog, power and MCU products. Besides in-house IC products, the wafer fab also provides part of its capacity for foundry services. Nuvoton Technology provides products with a high performance/cost ratio for its customers by leveraging flexible technology, advanced design capability and integration of digital and analog technologies. Nuvoton values long term relationships with its partners and customers and is dedicated to continuous innovation of its products, processes and services. The company has established subsidiaries in the USA, China and Israel to strengthen regional customer support and global management.

NTC organized this FDP on NuMicro™ Cortex™-M0 is Nuvoton's brand new 32-bit microcontroller family powered by the ARM cortex- M0 processor – the smallest lowest power and most energy efficient ARM processor optimized for a verity of MCU applications. The NuMicro™ family includes NUC100/200 series, NUC120/122/123/220 series with USB 2.0 FS device, NUC130/140 series embedded with Controller Area Network (CAN) 2.0B

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licensed from BOSCH, M051 series, Mini51 series and Nano100 Ultra-low power series targeting at battery powered applications.



With a variety of product offerings, the NuMicro™ family is ideal for use in industrial control systems, industrial automation, consumer products, embedded network control, energy, power systems, motor control and many more.

Topics such as NuMicro Introduction, NuMicro learning board SDK installation, GPIO, LCD, PWM and Motor control, UART, SPI, USB, I2C and CAN 2.0 were covered in this program.

Dr. Richard Kuo, Technology Director, Nuvoton Technology Corporation (NTC), Taiwan and Mr. Jitendra Patil, Business Director, Nuvoton India along with Mr. Mohammed Sadique Anwar, Engineer, Nuvoton Technology Corporation (NTC), Taiwan conducted this workshop in coordination with NTC's training partners.

This program was offered to all faculties of GTU affiliated colleges and each registered faculty received a kit of NuMicro™ Cortex™-M0 for their institute students. Total 32 Kit of NuMicro™ Cortex™-M0 was given by NTC to GTU affiliated colleges. NTC has also gifted 25 Kit of NuMicro™ Cortex™-M0 to GTU for setting up a lab based on NTC Microcontrollers in GTU.

Valedictory ceremony was organized on 19th January, 2014 and was chaired by Dr. Vadodaria, I/C Registrar, GTU. Dr. Vadodaria thanked NTC for taking such a great initiative. He mentioned that such activity where company is not only providing training to our teachers but at the same time gifting such valuable Microcontroller boards to all colleges has not happened before. He urged all faculties to motivate students of their colleges to take maximum benefit of these boards and learning experience based on the latest technology associated with it.



At the end of the valedictory ceremony Shri Naresh Jadeja, Deputy Director, GTU thanked all who contributed to make this FDP a grand success and requested all faculties to actively participate in the future FDP's of GTU. All participants were given NTC NuMicro™ Cortex™-M0 kits at the end of the program.

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NTC Technology Director Dr. Richard Kuo and Business Director Mr. Jitendra Patil giving 25 Microprocessor boards to I/C Registrar of GTU Dr. Vadodaria for setting up NTC laboratory.