MicroProcessor

Kim Jin Hwan
Kim Tae Wook

Weekly plan

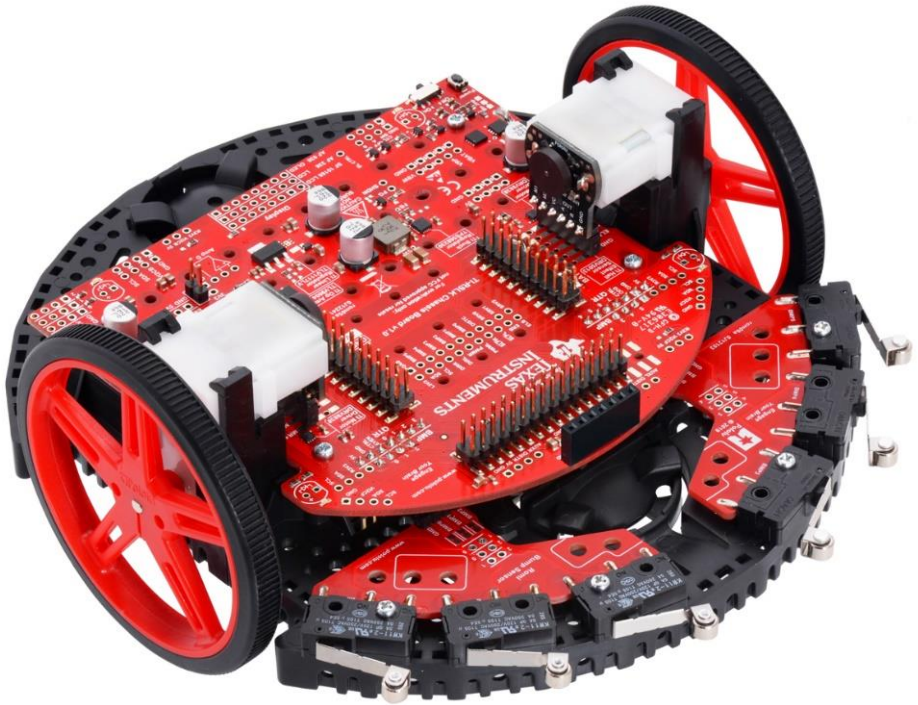
WEEK 1	- a class introduction - teaming
WEEK 2	- Assembly of robots - Configuration Settings
WEEK 3	- C Language Review - Write a simple C program and test it on the robot - Robot Assembly, Environmental Settings
WEEK 4	- Try the LED - Try the switch (Polling) - LED, creating switch interface
WEEK 5	- Using Simple Timer (SysTick) - Create Delay function - LED with SysTick
WEEK 6	- Using an Infrared Sensor - Infrared Sensor Lab
WEEK 7	- PWM signal introduction - Introduction to DC Motor - Creating a DC Motor Interface

Weekly plan

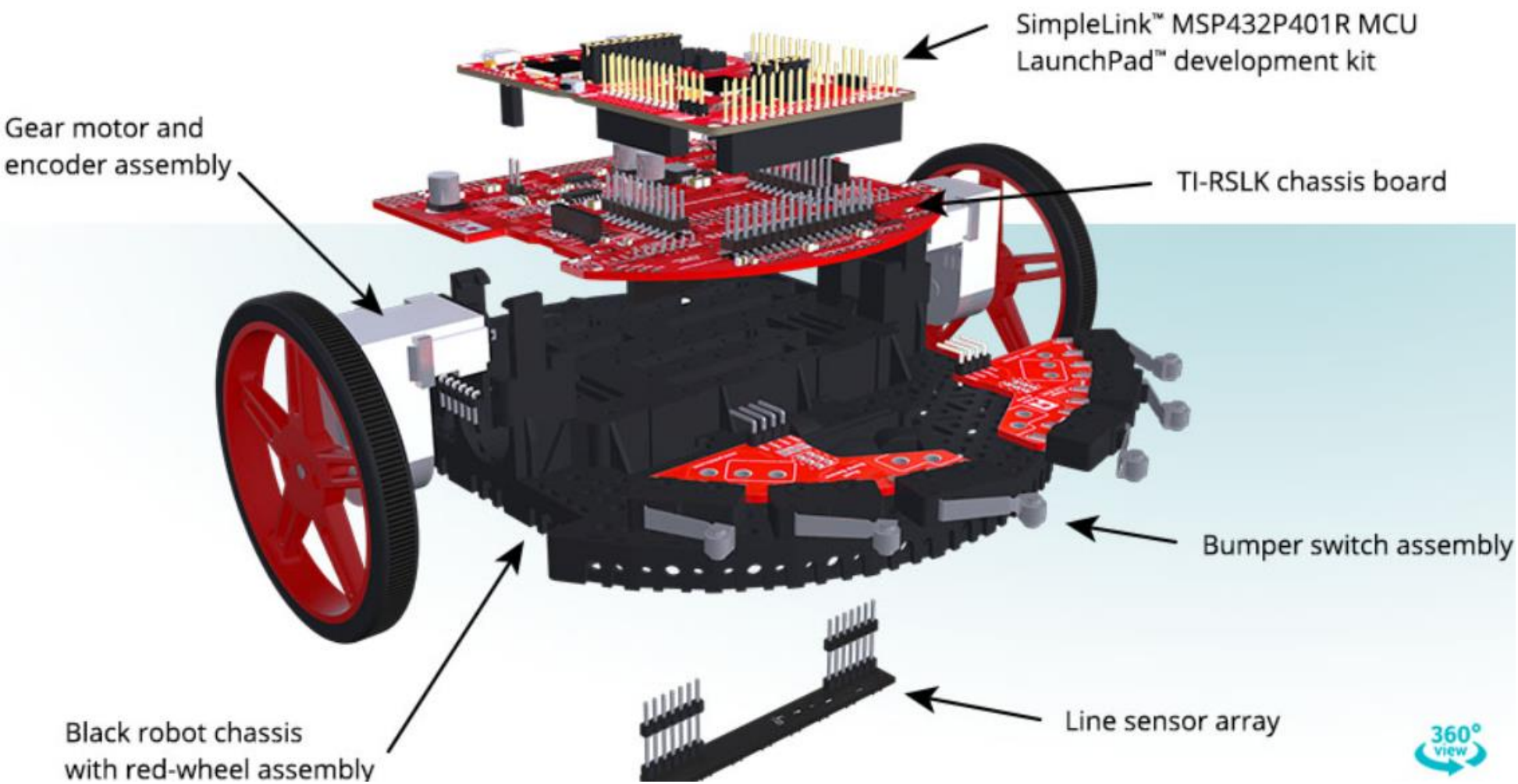
WEEK 9	- Using the Advanced Timer - Convert Timer Output to PWM, apply DC motor
WEEK 10	- Interrupt - timer interrupt, GPIO interrupt
WEEK 11	- Tachometer - To calculate the robot travel distance
WEEK 12	- LINE TRACING Project
WEEK 13	- LINE TRACING Project
WEEK 14	- LINE TRACING Project
WEEK 15	- 프로젝트 테스트

Practice Class

- Line tracing using Ti-RSLK
- Divide into groups (two people, one group) to deal with microsystems and code



Ti-RSLK


SimpleLink™ MSP432P401R MCU
LaunchPad™ development kit
Gear motor and
encoder assembly
TI-RSLK chassis board
Bumper switch assembly
Black robot chassis
with red-wheel assembly
Line sensor array
360° view

수업진행 방식

- It is conducted in English

Practice environment

- **Windows or Mac**
  - Both environments are supported.

- **Please be sure to bring your laptop.**

Contact

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- Please add [Microprocessor],[MP] or [마이크로프로세서],[마프] before the subject of the email

Group

- One person can form a group unilaterally, so two people who will form a group will come and express their agreement

- It is difficult to proceed alone due to the number of devices.