

# PicoRuby Workshop

## Low Energy Edition

hasumikin

**EuRuKo 2026**

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# self.inspect

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◆ Hitoshi HASUMI

◆ @hasumikin (GitHub and Twitter)

◆ Creator of PicoRuby

◆ Committer of mruby and mruby/c

◆ Committer of CRuby IRB and Reline



# Workshop Guidelines

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## 💎 Spirit of Collaboration (Mutual Aid)

- 💎 Help each other
- 💎 Share knowledge
- 💎 Ask neighbors, no hesitation

## 💎 Take a break anytime

## 💎 Troubleshooting Approach

- 💎 Check your wiring
- 💎 Reboot R2P2 by **reboot** command, you'll learn it later

# Today's Hands-On

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1. [15min] Intro, Setup and Hello World
2. [15min] LED and Switch
3. [15min] Ultrasonic Sensor and RuntimeGems
4. [40min] Make BLE Theremin
5. [Bonus] Explor Raw BLE Packet

# Hands-On 1: Intro

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1. [15min] [tinyurl.com/picoruby-2026](https://tinyurl.com/picoruby-2026)

## Hands-On 2: LED and Switch

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1. [15min] [tinyurl.com/picoruby-2026](https://tinyurl.com/picoruby-2026)
2. [15min] [tinyurl.com/picoruby-switch](https://tinyurl.com/picoruby-switch)

## Hands-On 3: Ultrasonic Sensor

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1. [15min] [tinyurl.com/picoruby-2026](https://tinyurl.com/picoruby-2026)
2. [15min] [tinyurl.com/picoruby-switch](https://tinyurl.com/picoruby-switch)
3. [15min] [tinyurl.com/picoruby-runtimegems](https://tinyurl.com/picoruby-runtimegems)

## Hands-On 4: BLE Theremin and Bonus

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1. [15min] [tinyurl.com/picoruby-2026](https://tinyurl.com/picoruby-2026)
2. [15min] [tinyurl.com/picoruby-switch](https://tinyurl.com/picoruby-switch)
3. [15min] [tinyurl.com/picoruby-runtimegems](https://tinyurl.com/picoruby-runtimegems)
4. [40min] [tinyurl.com/picoruby-theremin](https://tinyurl.com/picoruby-theremin)
5. [Bonus] [tinyurl.com/picoruby-lightblue](https://tinyurl.com/picoruby-lightblue)

**Take a photo of this page** 

**You can take the components home with you**

Stargaze at 

[github.com/picoruby/picoruby](https://github.com/picoruby/picoruby)

Also 

[github.com/picoruby/funicular](https://github.com/picoruby/funicular)