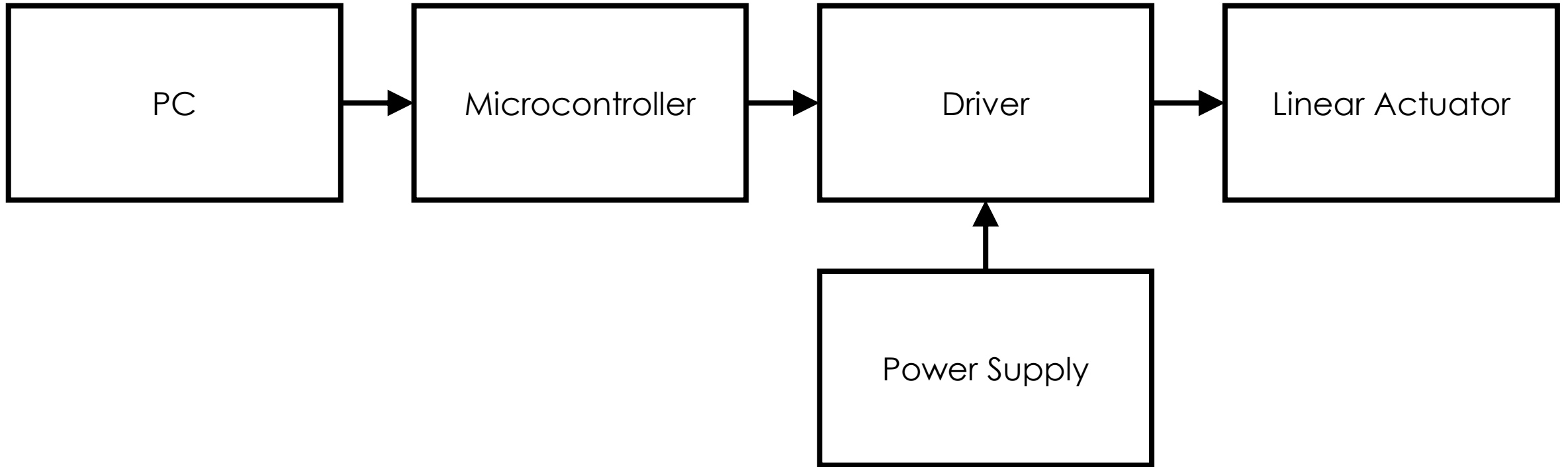


# How to use Serial Controller

Shunsuke Yoshimoto

# Device architecture




# Typical setup

- Microcontroller: STM32F407G, STMicroelectronic
- Driver & Linear Actuator: EAC4W-D15-AZAA-1-G, Orientalmotor
- Power Supply: AD8735D, AND

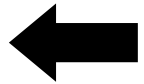
Power

USB Micro B



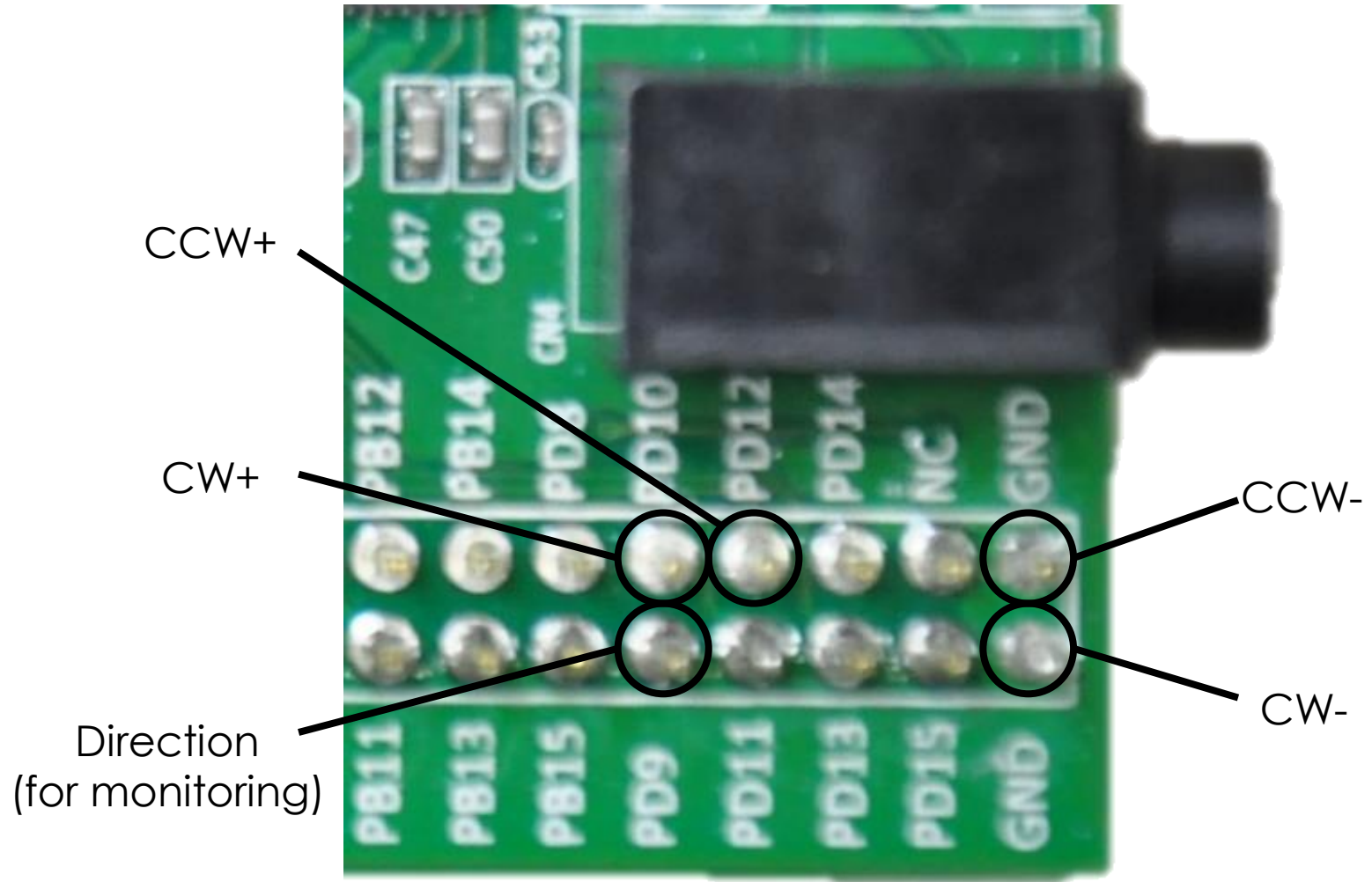
USB  
Micro B

Serial



USB  
Mini A

# Pin assignment



# Software install

1. Download program

<https://github.com/yoshimoto56/tools/tree/master/LinearActuator/bin>

2. Connect microcontroller

3. Confirm COM port

Device Manager>Ports>STMicroelectronics Virtual COM Port (COM#)

4. Rewrite batch file

SerialCommunication.exe COM#



# Command

- sign+speed+stroke

ex) p100050: positive, 100 mm/s, 50 mm

$000 \leq \text{speed} \leq 100$ ,  $000 \leq \text{stroke} \leq 150$

- q:stop