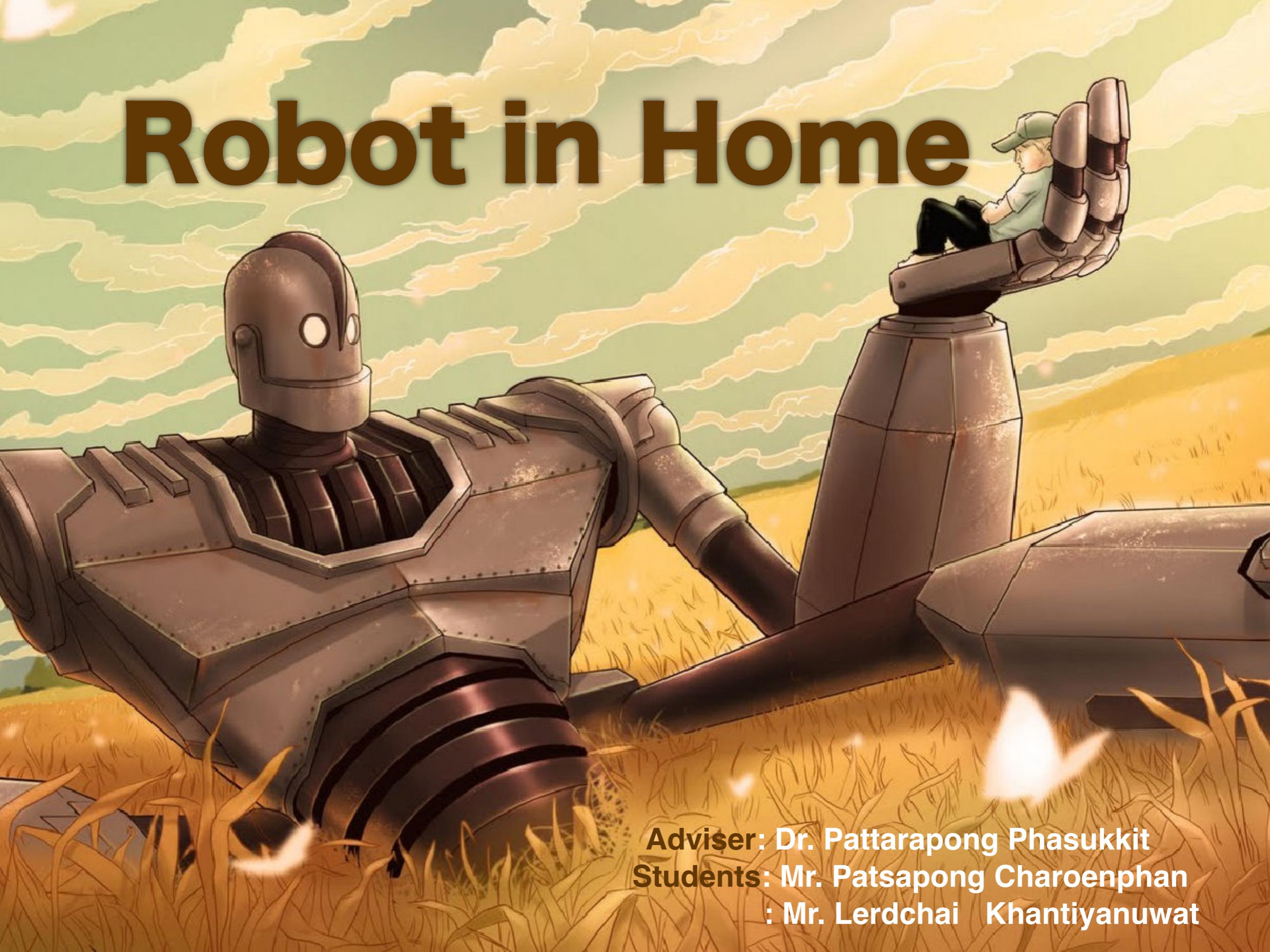
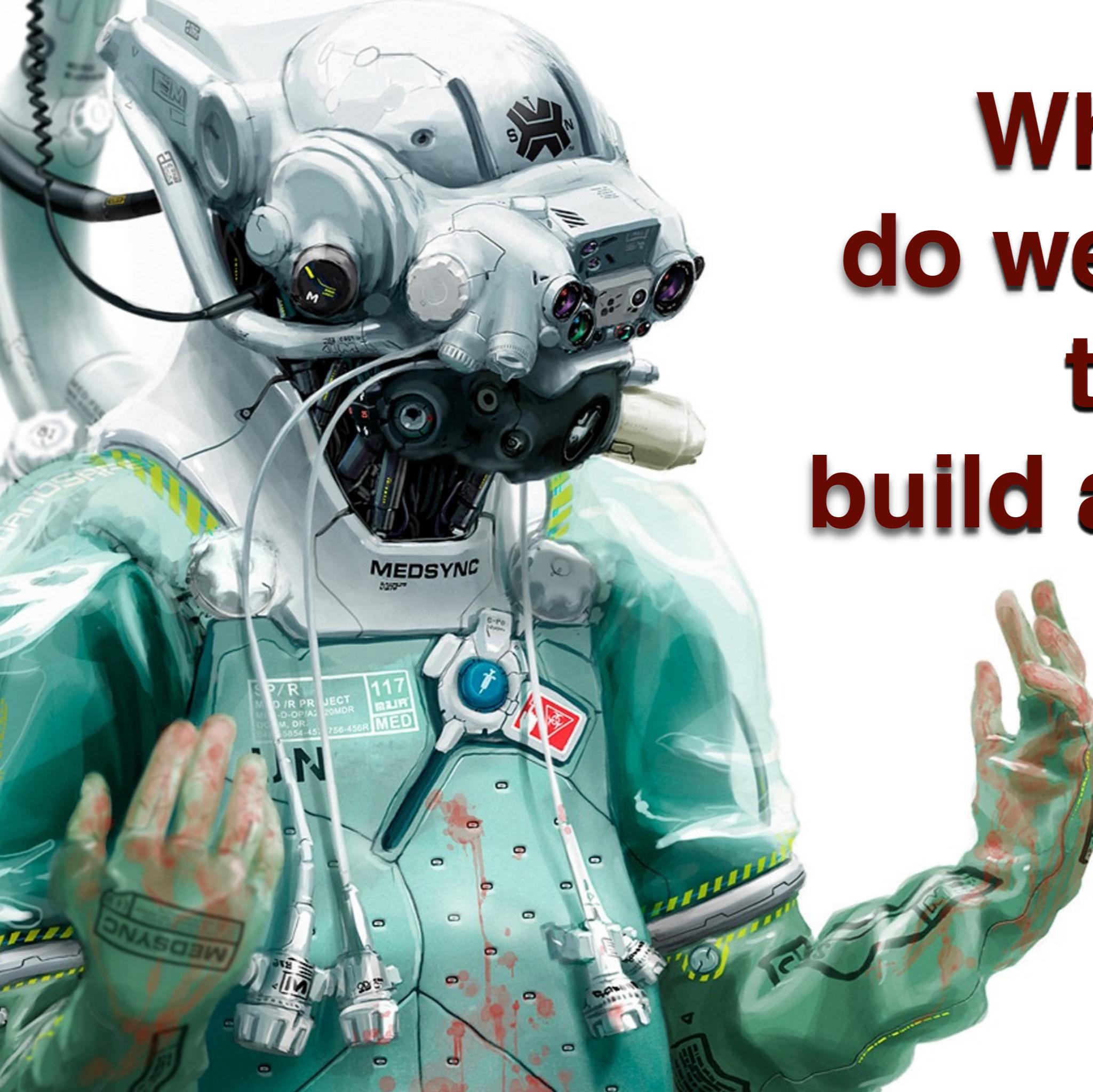


Robot in Home

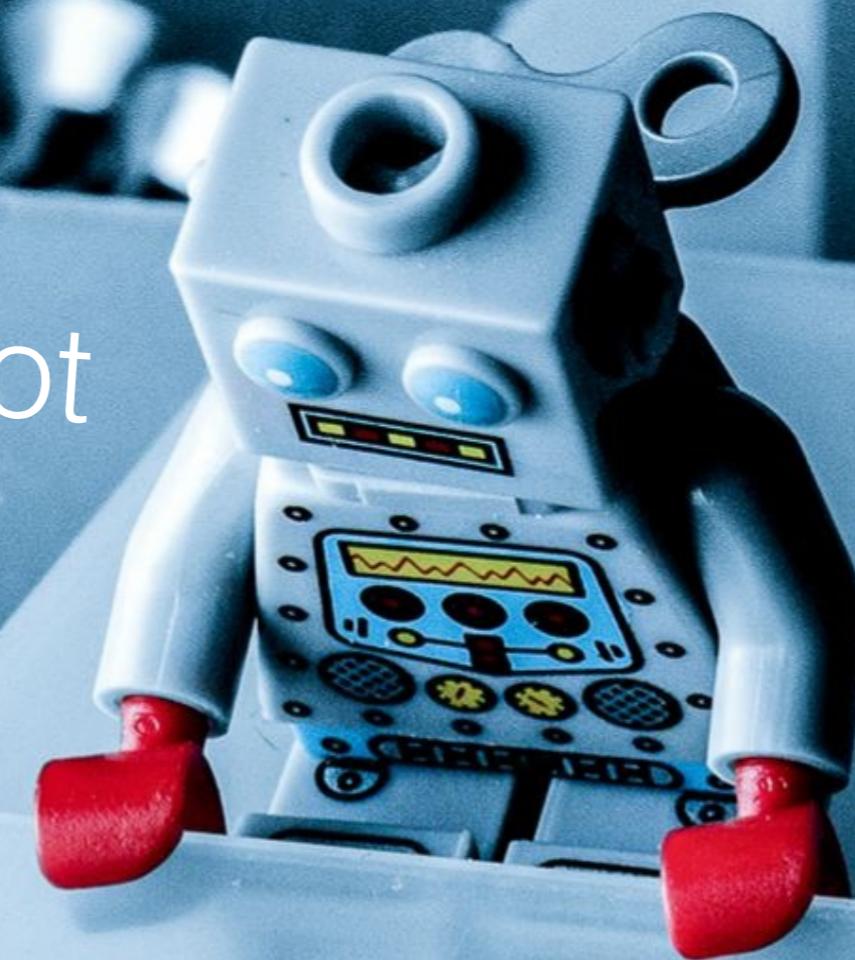


Adviser: Dr. Pattarapong Phasukkit
Students: Mr. Patsapong Charoenphan
: Mr. Lerdchai Khantiyanuwat



**Why?
do we have
to
build a robot**

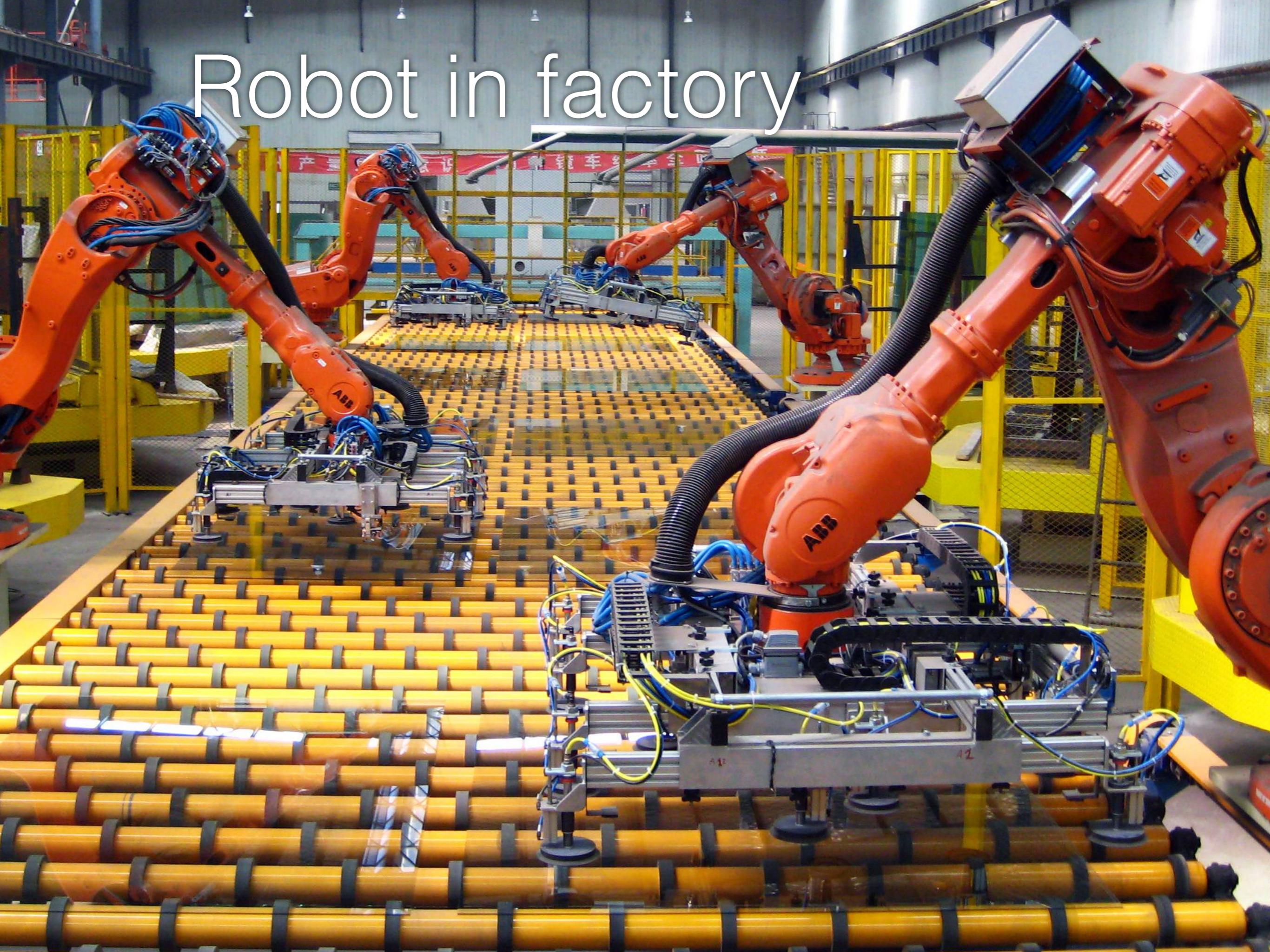
We Love Robot



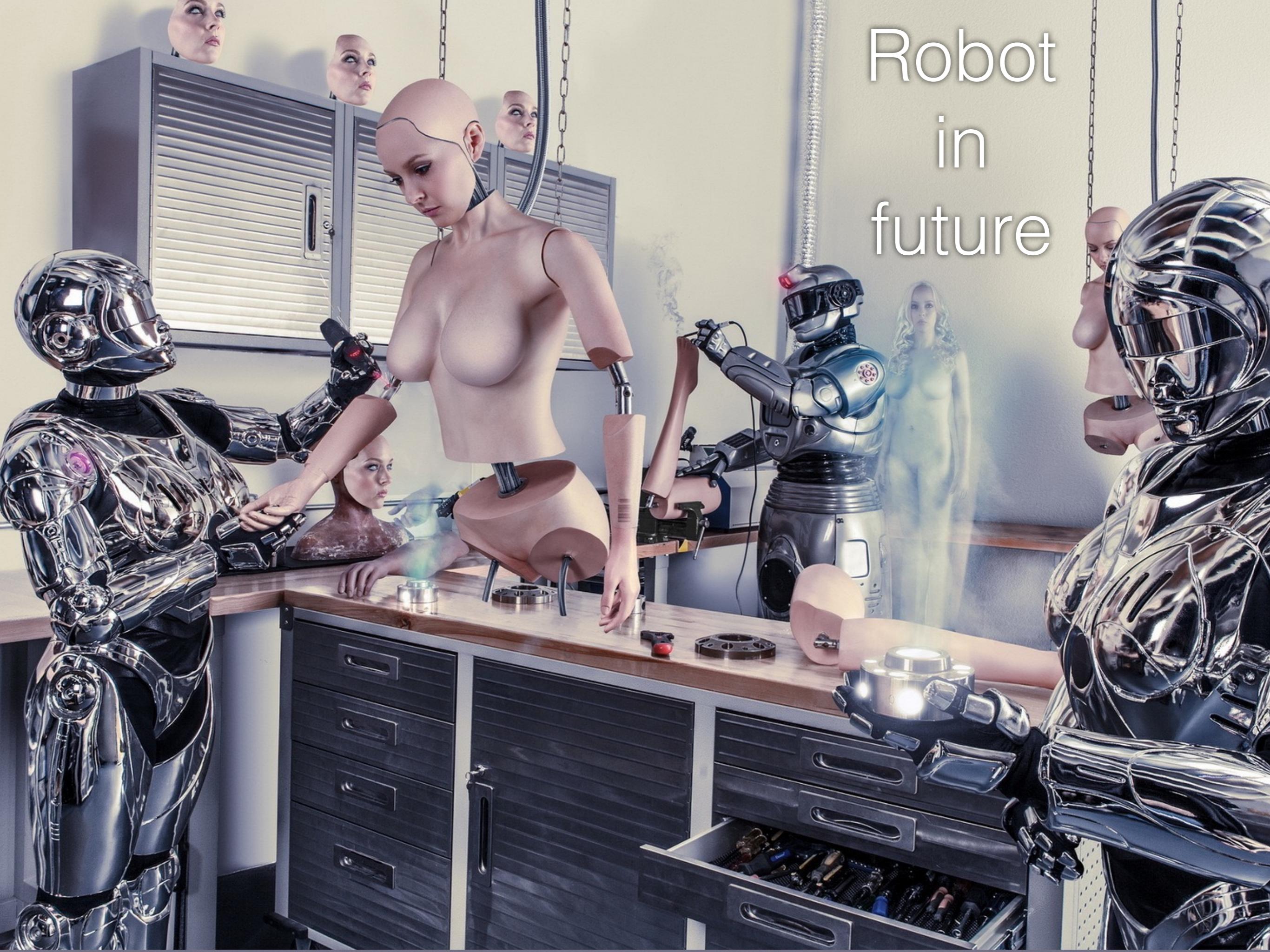


We like to learn
new technology

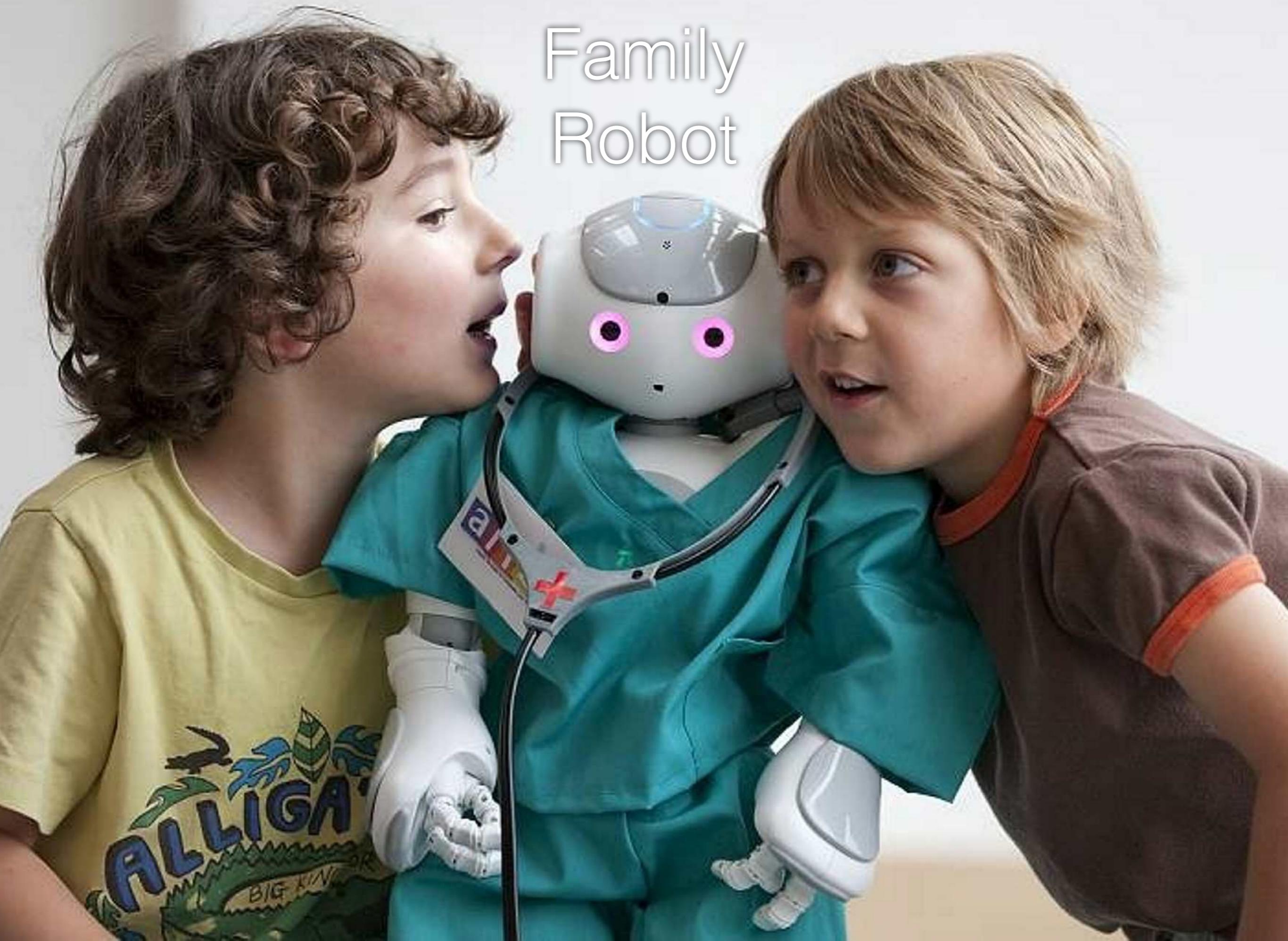
Robot in factory



Robot
in
future

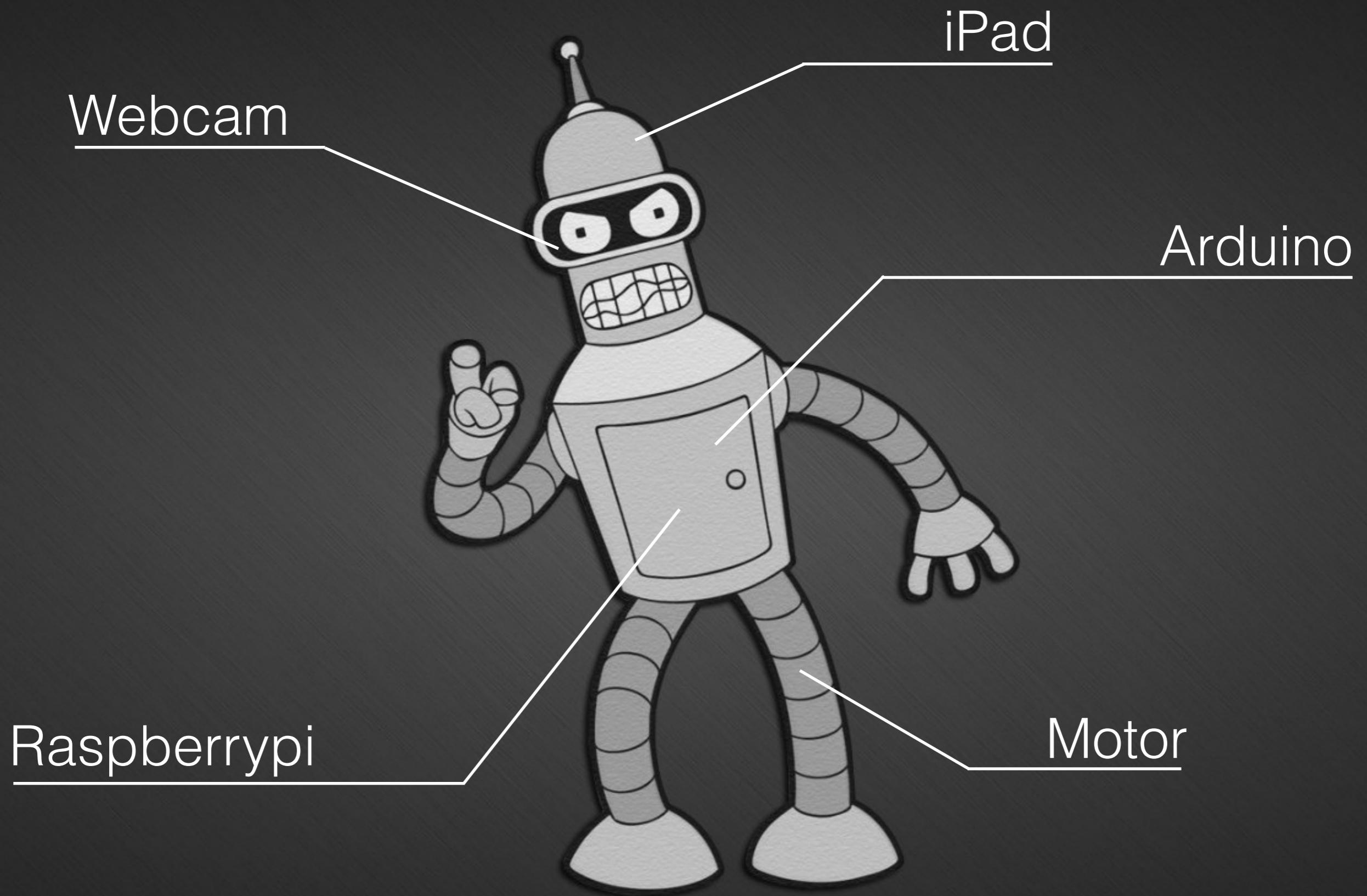


Family Robot

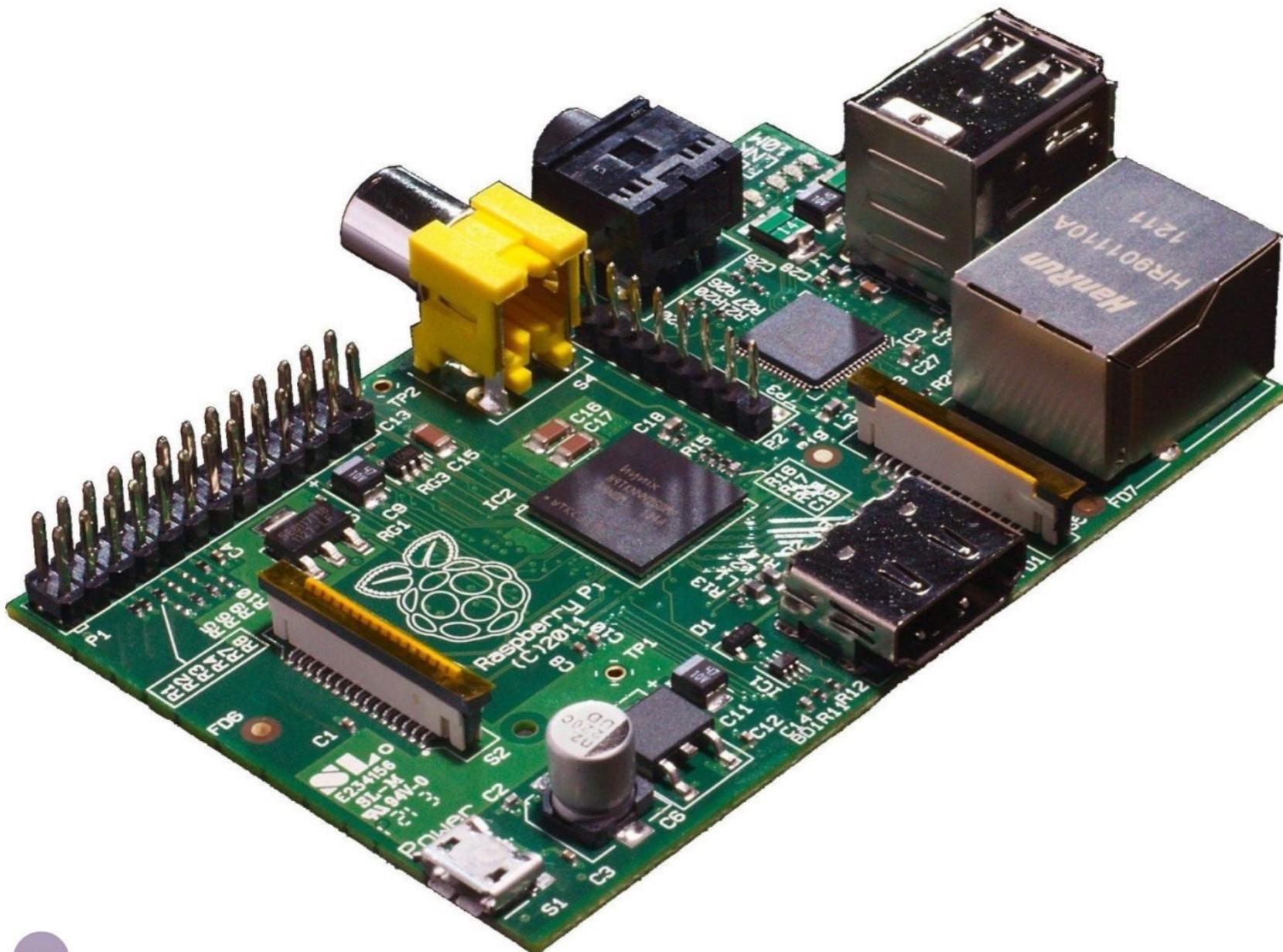


A close-up photograph of a white, spherical robotic camera device. The device has a prominent circular lens in the center, which is labeled "SARIF" in white capital letters. The body of the device is white with some black accents and a textured surface. It appears to be a robotic arm or part of a larger machine, as other similar components are visible in the background.

Solution



Raspberry Pi



OS: RASPBIAN

Program :

jasper

pypoint

nginx

pyserial

Jasper



arecode



Pocketsphinx



Core

Serial write

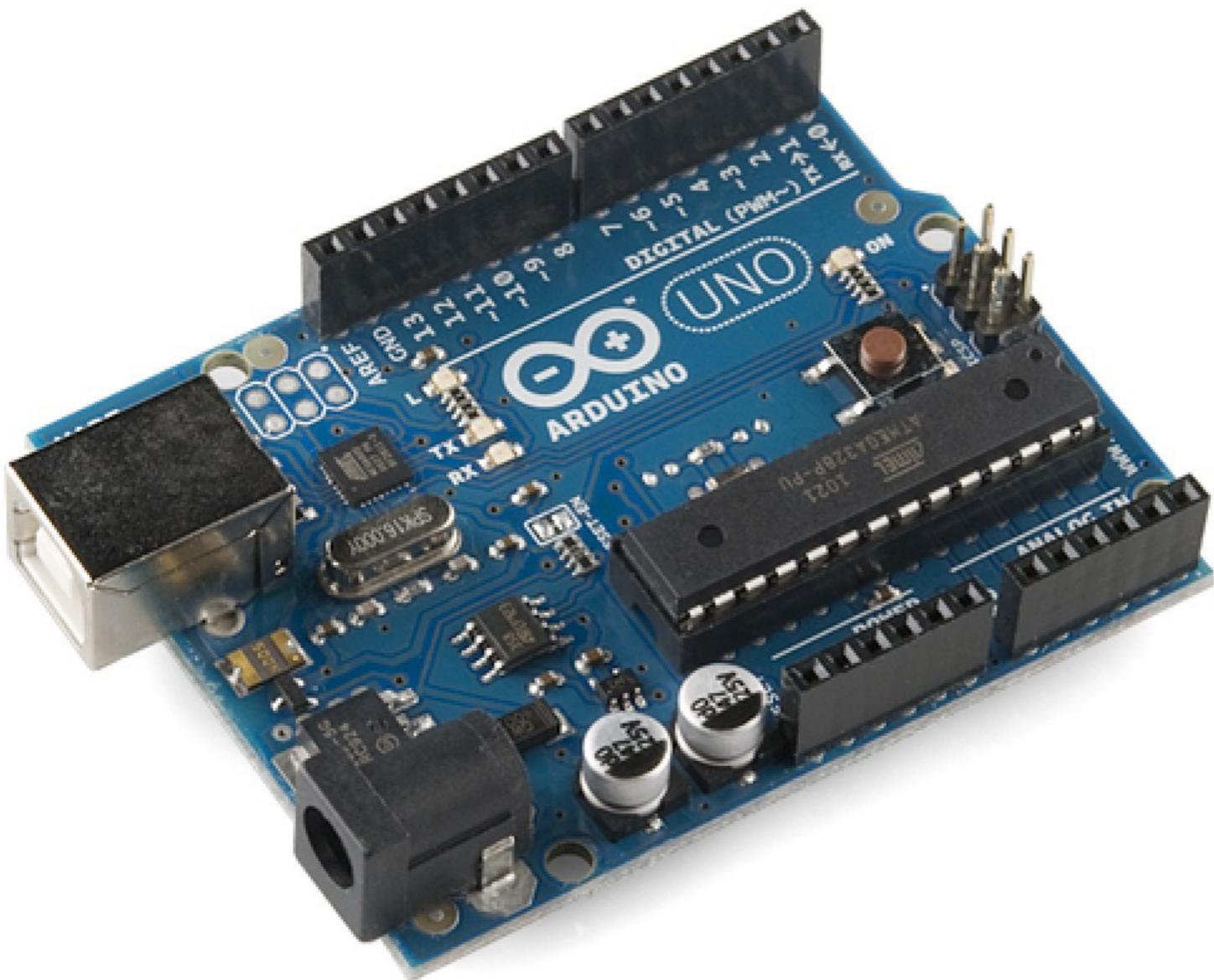
data to iPad

espeak

command in Pi



Arduino



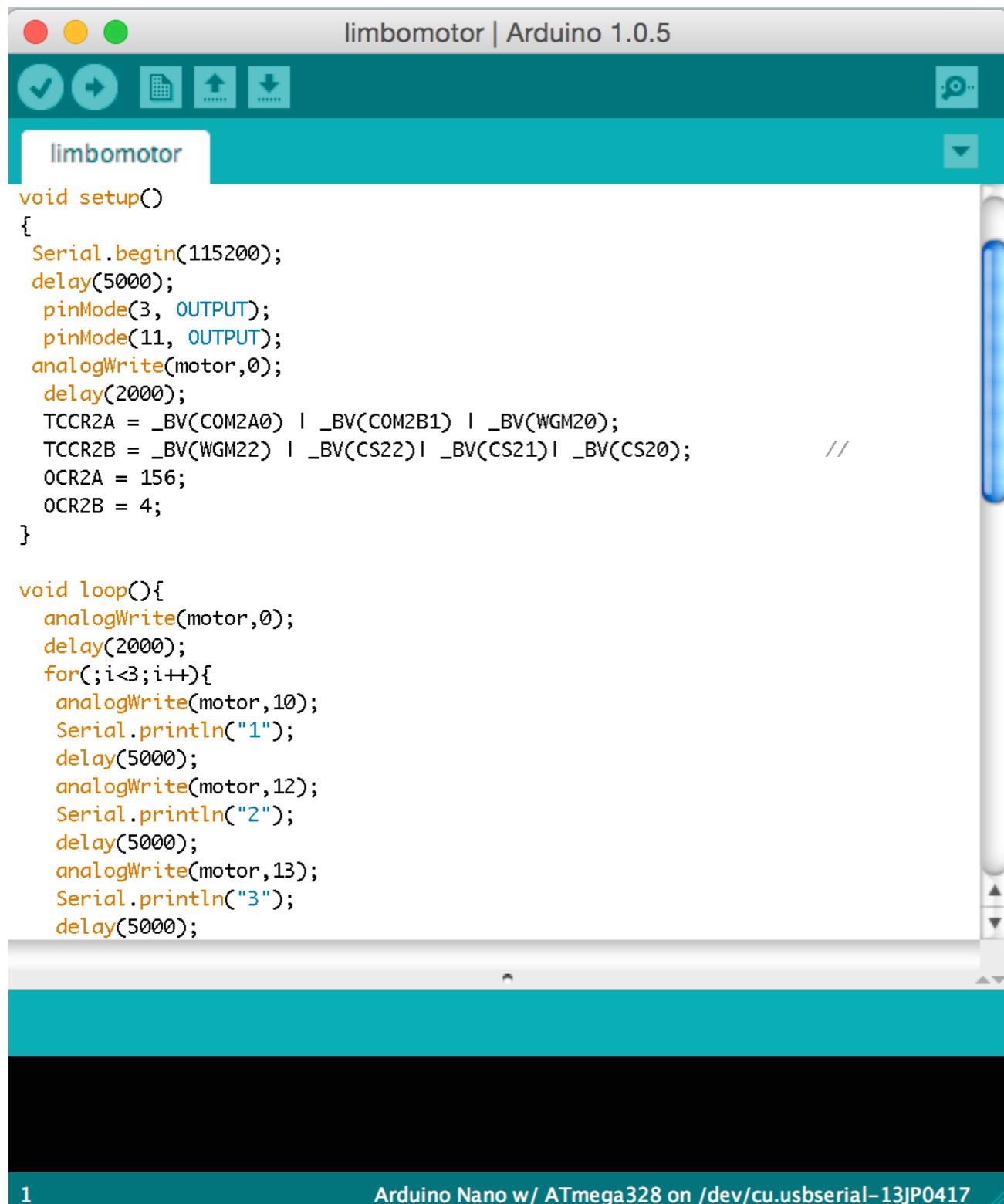
Uno rev.3

Serial read

Control:

- servo
- motor

Arduino



The diagram illustrates the connection of an Arduino Uno to a breadboard. The Arduino's pins 3 and 11 are connected to the breadboard, which then powers a motor and a servo. A green arrow labeled "Read serial" points from the breadboard back to the Arduino. A blue line labeled "Control" connects the Arduino to the breadboard, and a red line labeled "Motor" connects the breadboard to the motor. A yellow line labeled "Servo" connects the breadboard to the servo.

```
limbomotor | Arduino 1.0.5

void setup()
{
  Serial.begin(115200);
  delay(5000);
  pinMode(3, OUTPUT);
  pinMode(11, OUTPUT);
  analogWrite(motor,0);
  delay(2000);
  TCCR2A = _BV(COM2A0) | _BV(COM2B1) | _BV(WGM20);
  TCCR2B = _BV(WGM22) | _BV(CS22)| _BV(CS21)| _BV(CS20);      //
  OCR2A = 156;
  OCR2B = 4;
}

void loop(){
  analogWrite(motor,0);
  delay(2000);
  for(;i<3;i++){
    analogWrite(motor,10);
    Serial.println("1");
    delay(5000);
    analogWrite(motor,12);
    Serial.println("2");
    delay(5000);
    analogWrite(motor,13);
    Serial.println("3");
    delay(5000);
}
```

1 Arduino Nano w/ ATmega328 on /dev/cu.usbserial-13JP0417

Read serial

Control

Motor

Servo

iPad



Show face robot
objective C
AFNetworking
UserInterface

Xcode

LIMBO > iPad Air Build LIMBO: Succeeded | 9/14/2557 BE at 2:38 PM

LIMBO 2 targets, iOS SDK 8.0

LIMBO

- pic
- talk
- faceTalk1.png
- faceTalk2.png
- stay
- faceStay1.png
- faceStay2.png

AppDelegate.h

AppDelegate.m

Main.storyboard

animationViewController.h

animationViewController.m

ViewController.h

ViewController.m

Images.xcassets

Supporting Files

LIMBOTests

- LIMBOTests.m
- Supporting Files

Frameworks

- Foundation.framework
- Headers
- CoreGraphics.framework
- UIKit.framework
- XCTest.framework
- libPods.a

Products

Pods.xcconfig

Pods

2 targets, iOS SDK 8.0

Podfile

Frameworks

Pods

Products

Targets Support Files

LIMBO > LIMBO > ViewController.m > No Selection

```
// ViewController.m
// LIMBO
//
// Created by passaporn on 8/25/2557 BE.
// Copyright (c) 2557 passaporn. All rights reserved.

#import "ViewController.h"
#import <AFNetworking/AFHTTPRequestOperationManager.h>

@interface ViewController : UIViewController

- (void)viewDidLoad
{
    _limboface.animationImages = [NSArray arrayWithObjects:
        [UIImage imageNamed:@"faceStay1.png"],
        [UIImage imageNamed:@"faceStay2.png"],
        nil];
    _limboface.setAnimationRepeatCount:0;
    _limboface.animationDuration = 3;
    [_limboface startAnimating];
    // [NSTimer scheduledTimerWithTimeInterval:2 target:self selector:@selector(requestRaspberryPi)
    // userInfo:nil repeats:YES];

    // NSString *fullURL = @"http://www.youtube.com";
    // NSURL *url = [NSURL URLWithString:fullURL];
    // NSURLRequest *requestObj = [NSURLRequest requestWithURL:url];
}


```

Quick Help

No Quick Help

Search Documentation

Label

Button

All Output



Result

QUESTION
?

