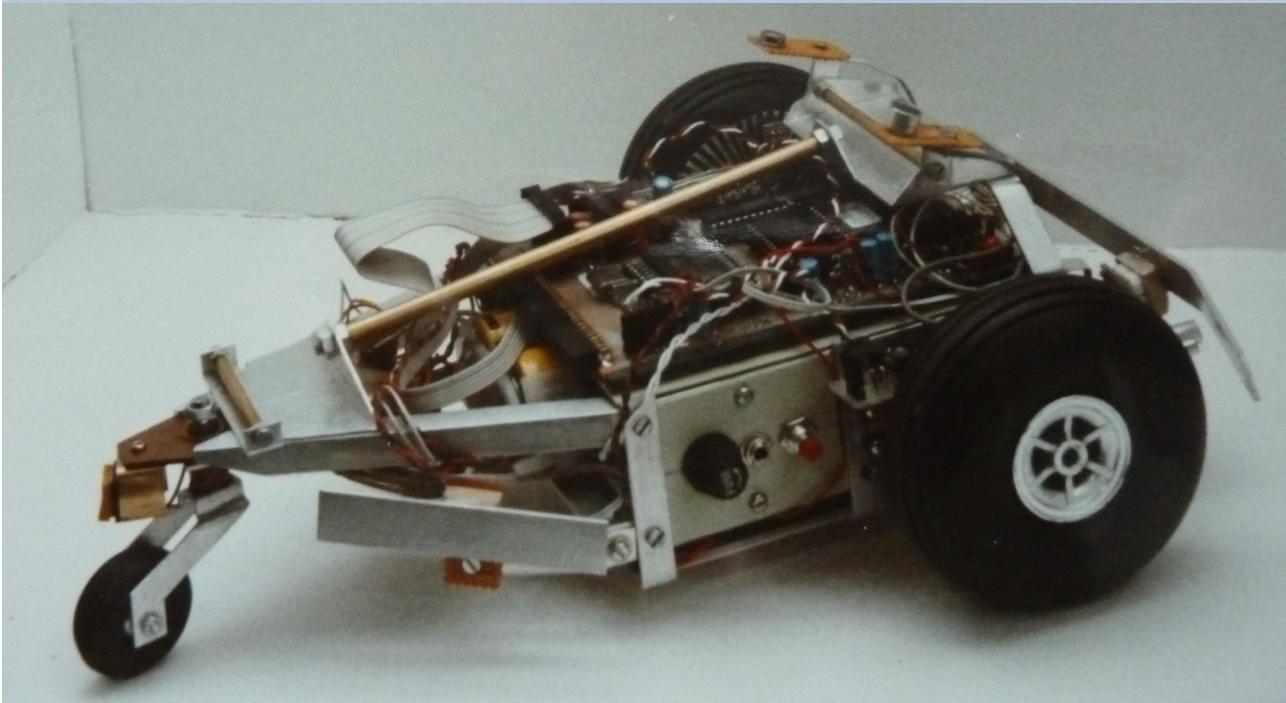


Robots

Opodel Doe

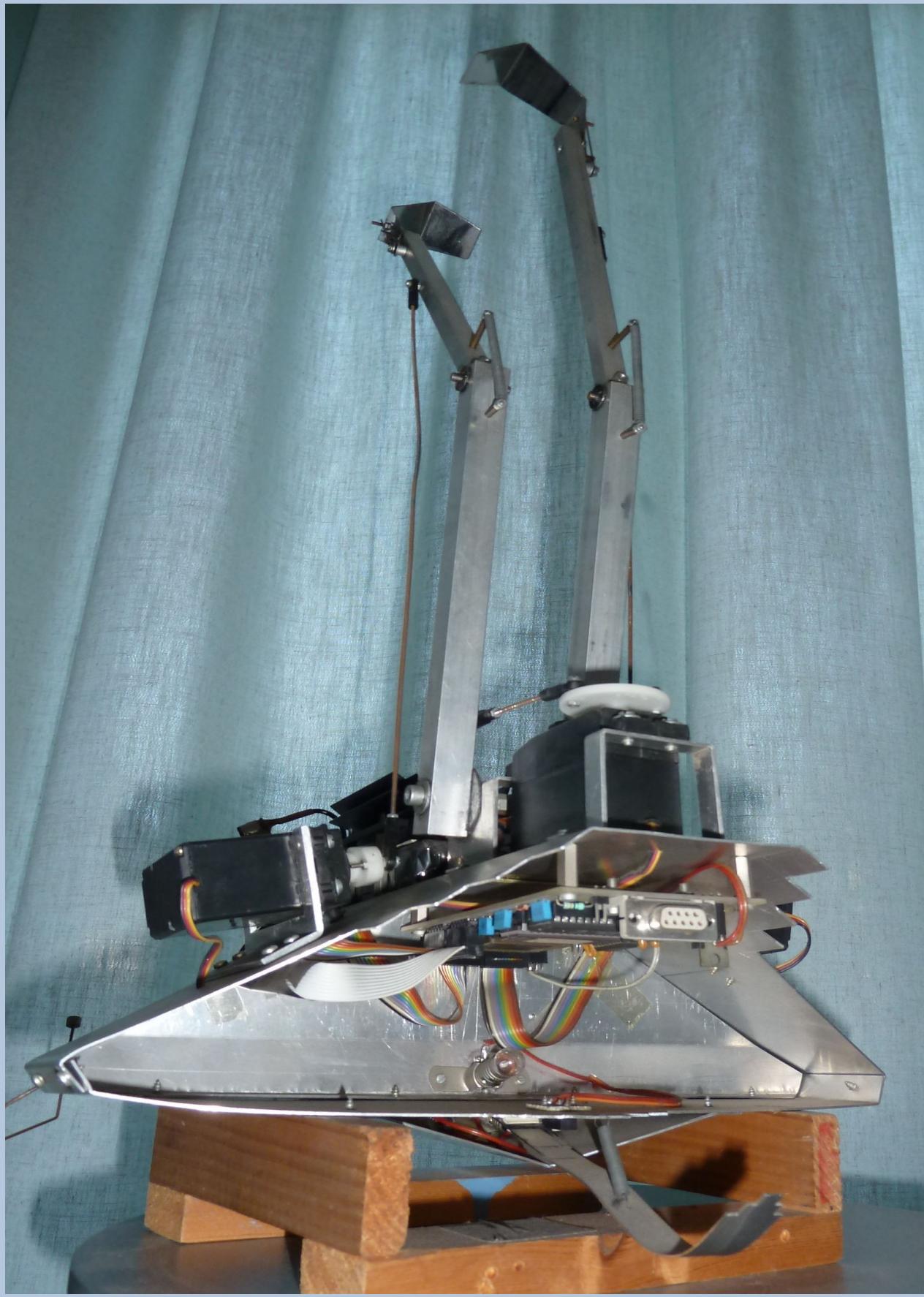


CPU board R6501Q
My first with Forth onboard

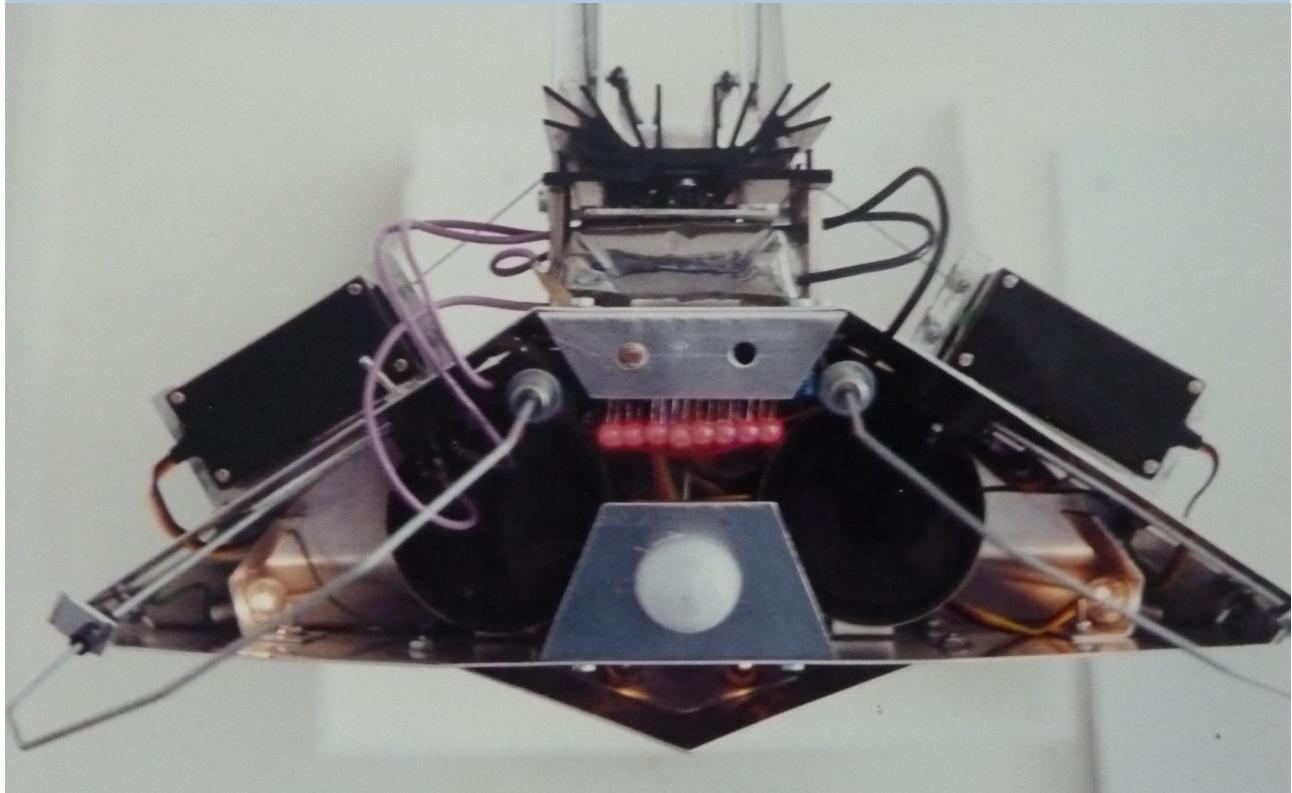
Robot monkey (named Slingeraar)



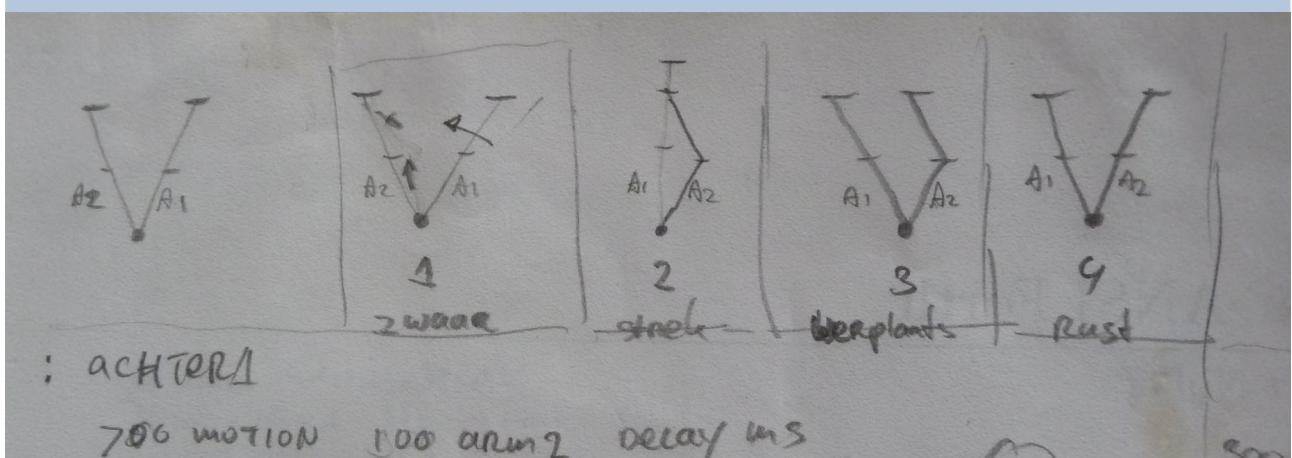
Monkey backside with 80C535



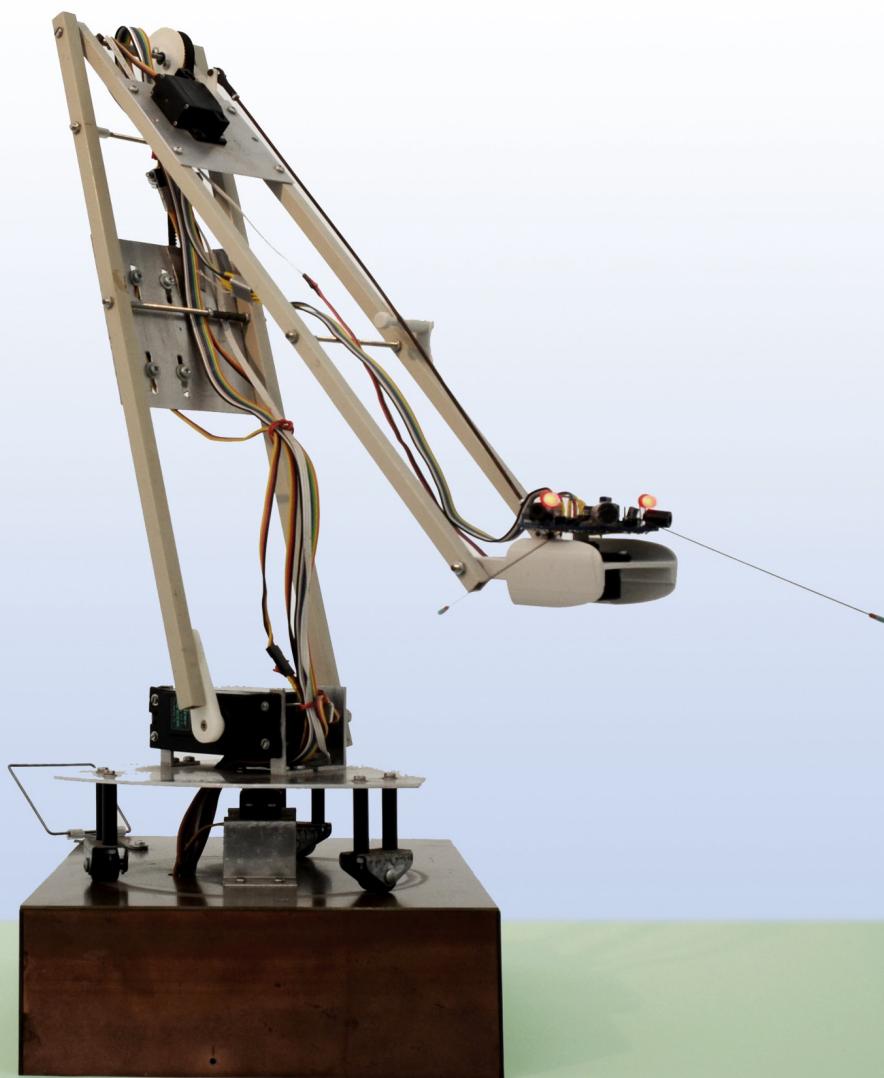
Monkey frontal with sensors



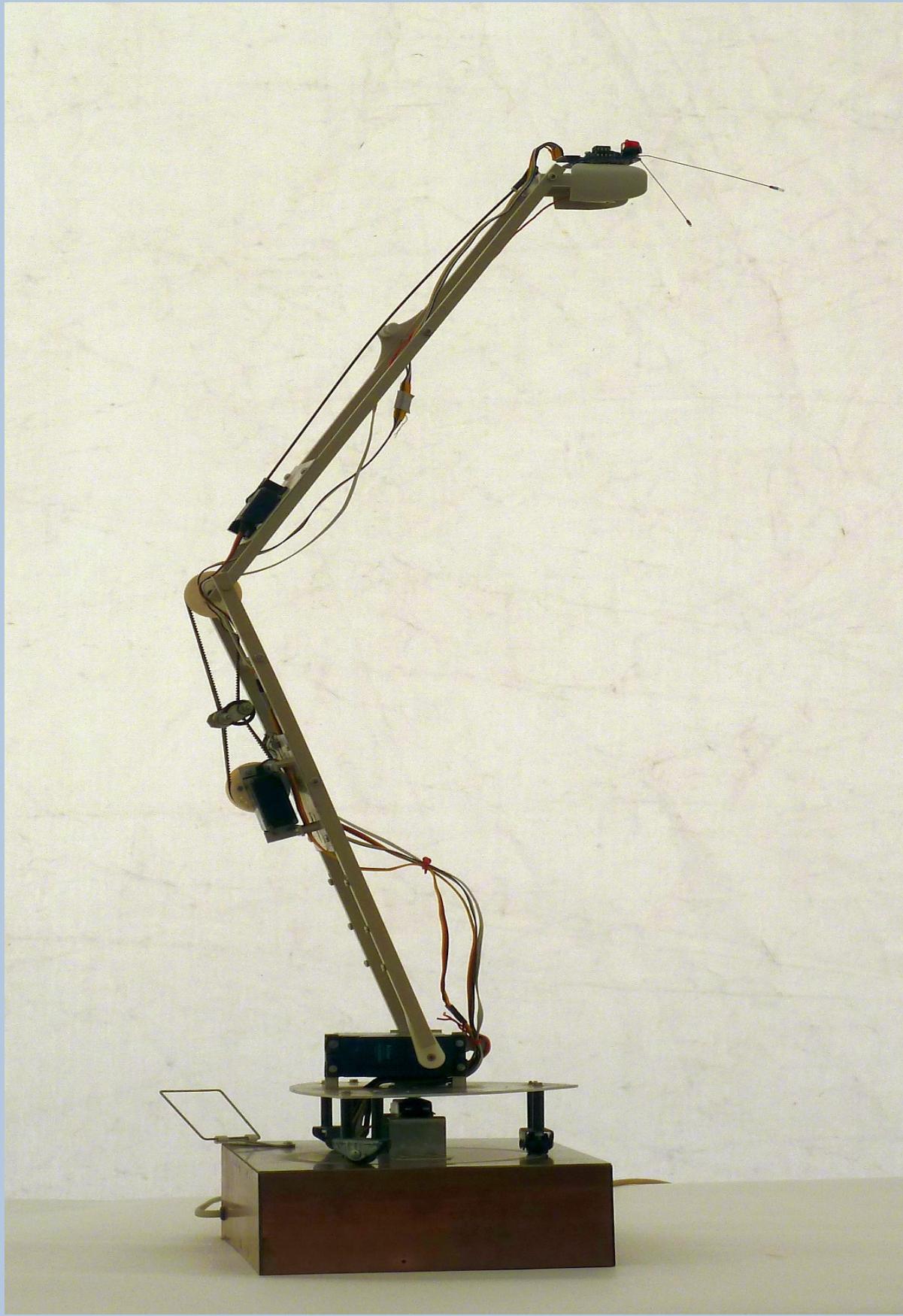
Monkey movement steps



Court dancing robot arm

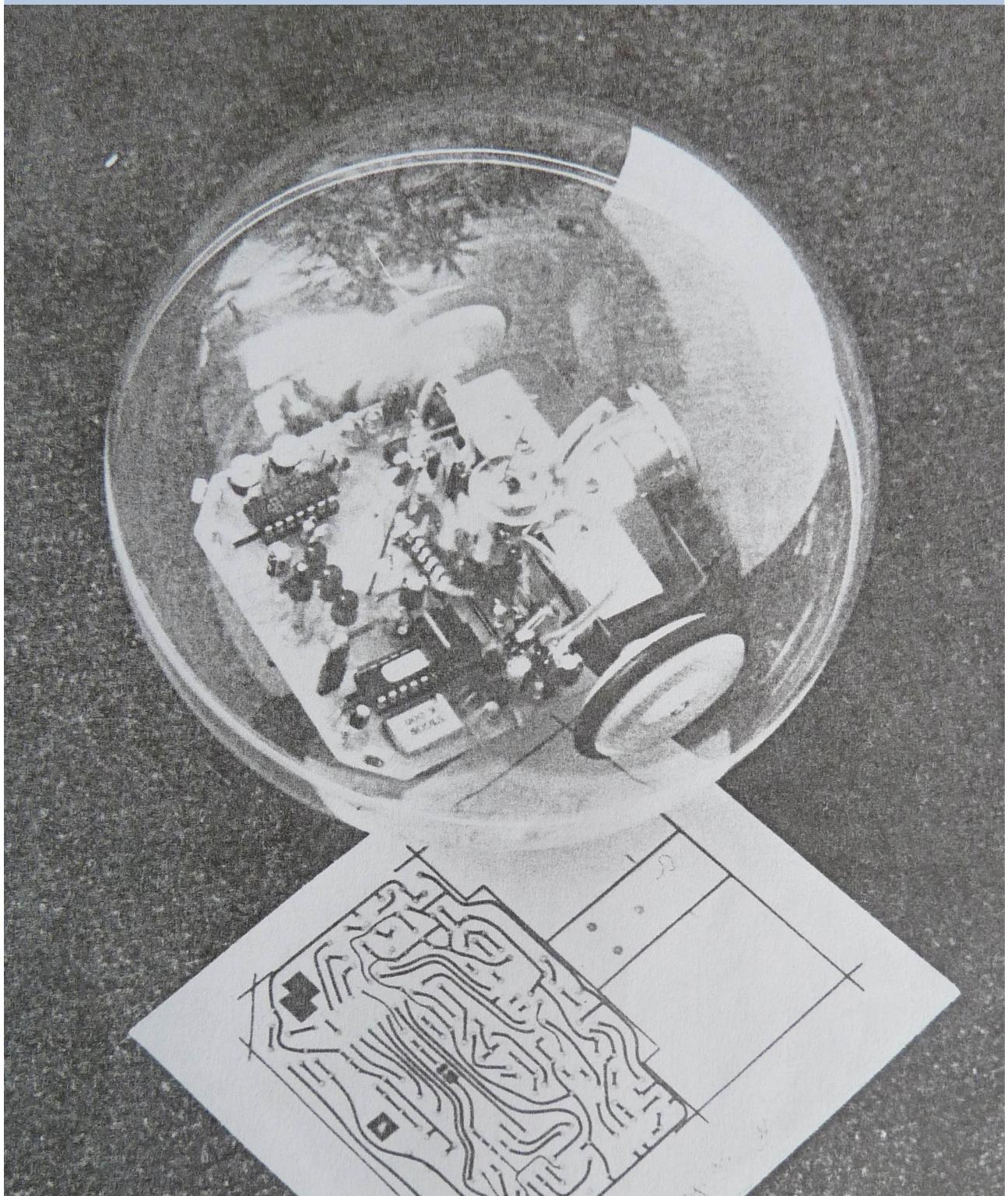


Controlled by an AT89C4051

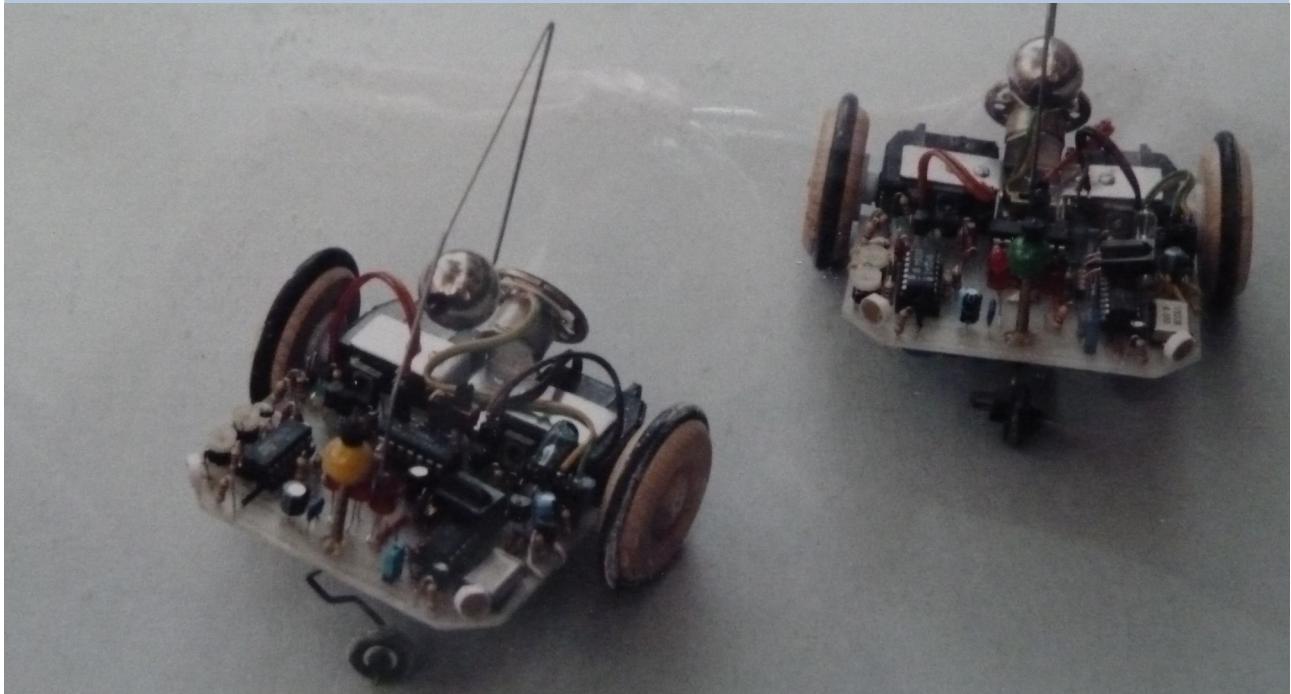


Hurd of robot balls

AT89C2051 & ByteForth



Robot hurd interior



Hurd in action



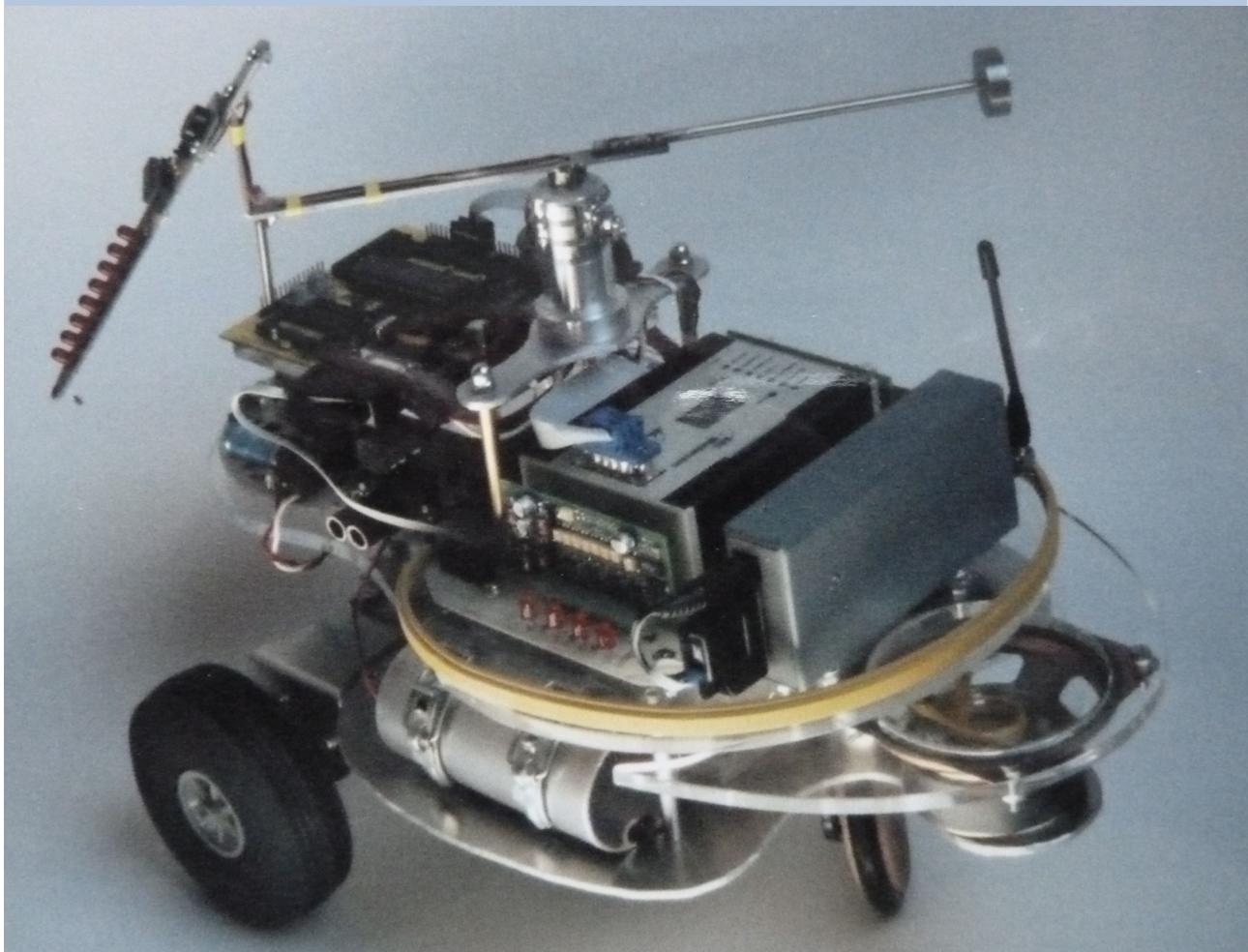
Big mean sniffer



**Controlled by a 80C535 running
8051-ANS-Forth**

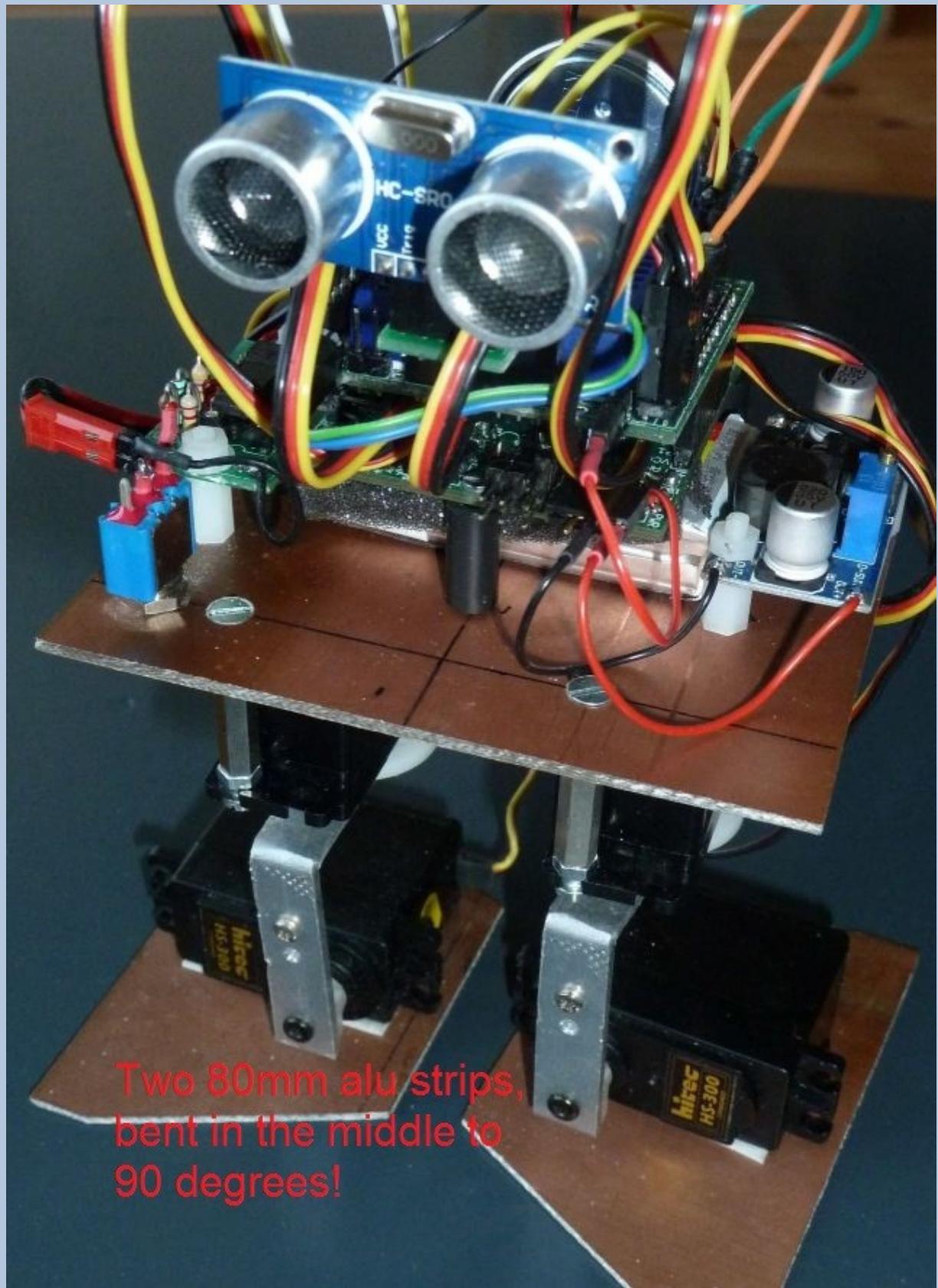
**Sensor units controlled by a
AT89C2051 & ByteForth**

Asiro robot

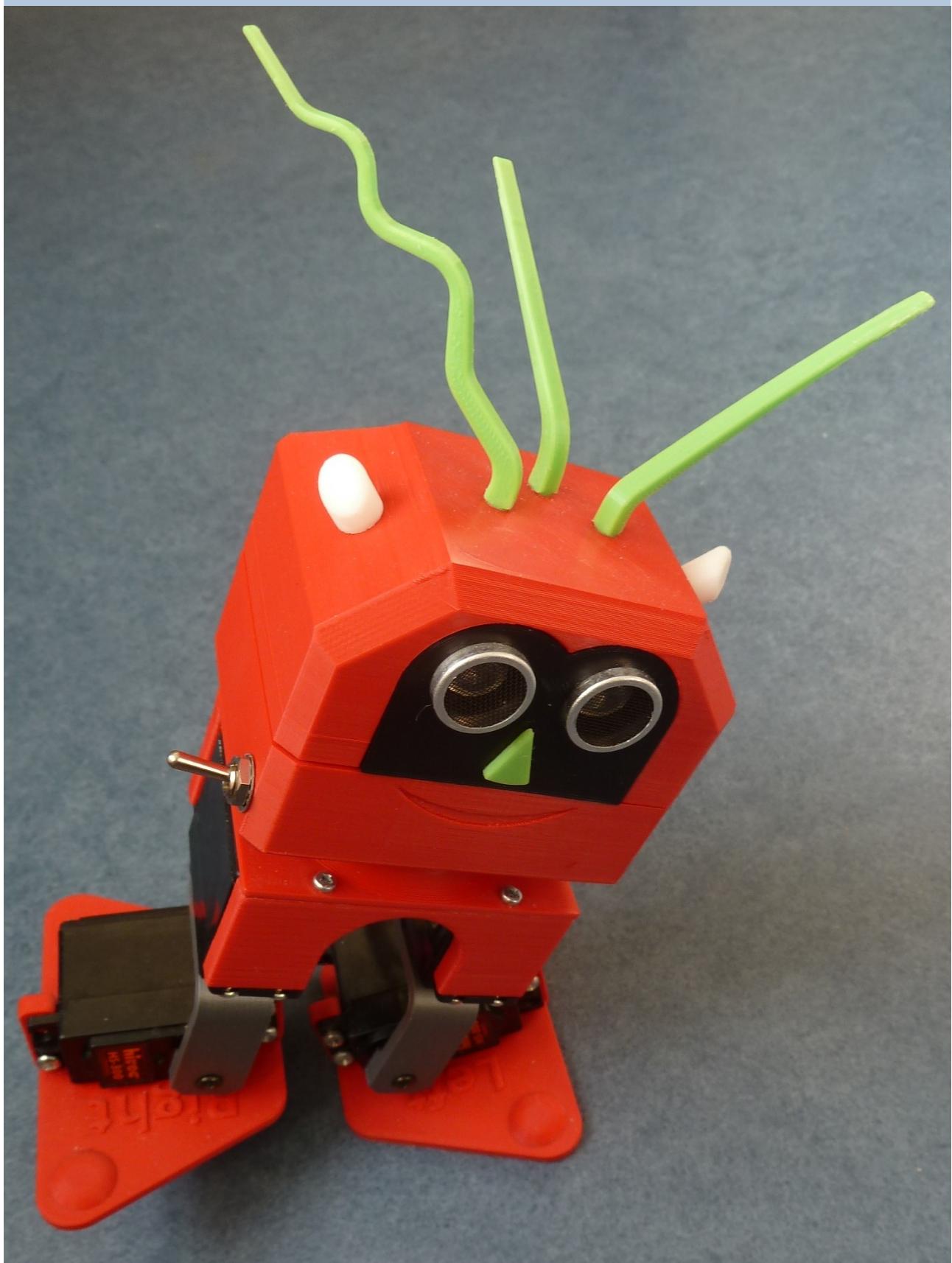


**Demonstration model for Asi
interface with 80C535**

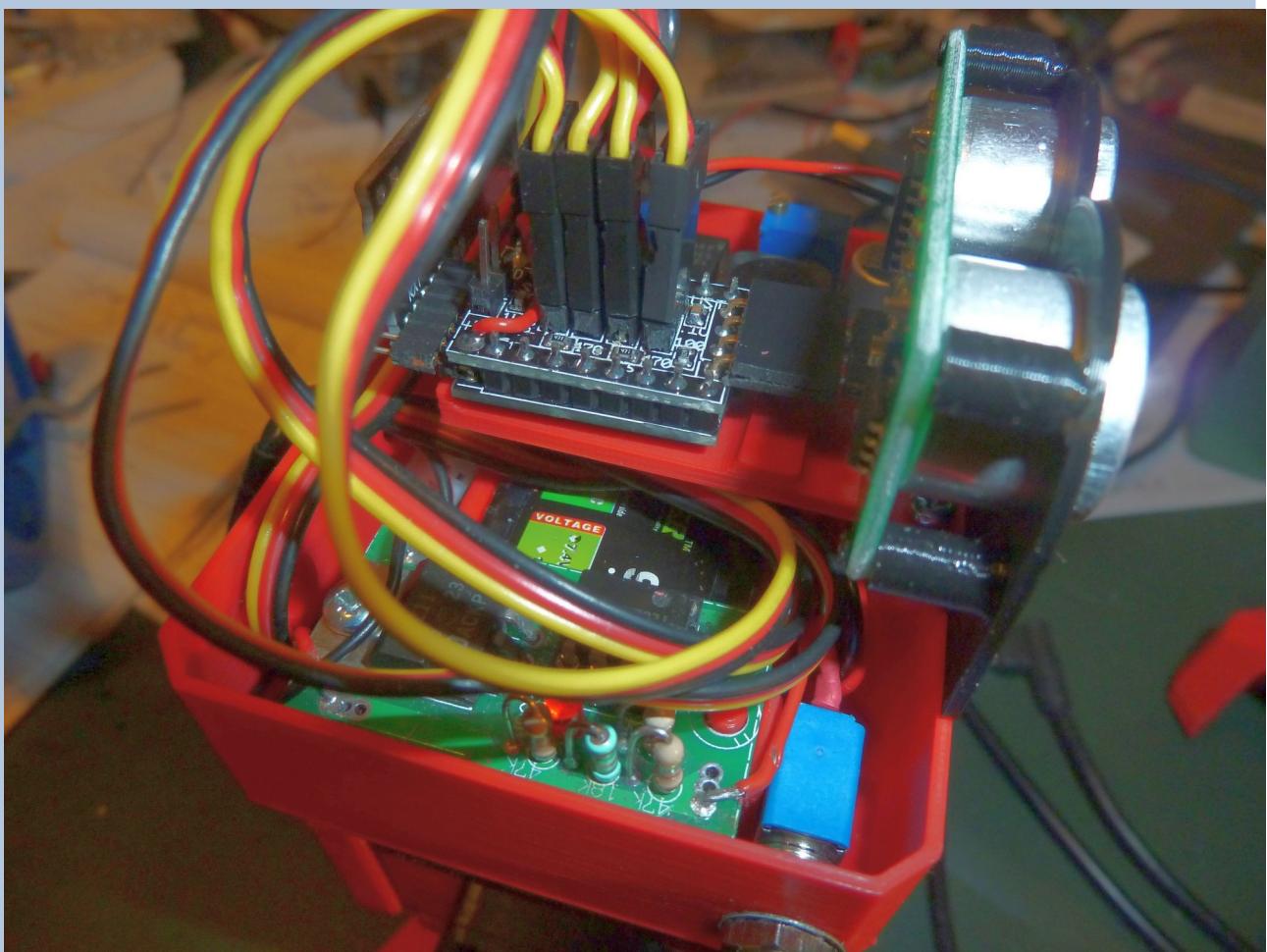
Biped VO



Biped V1



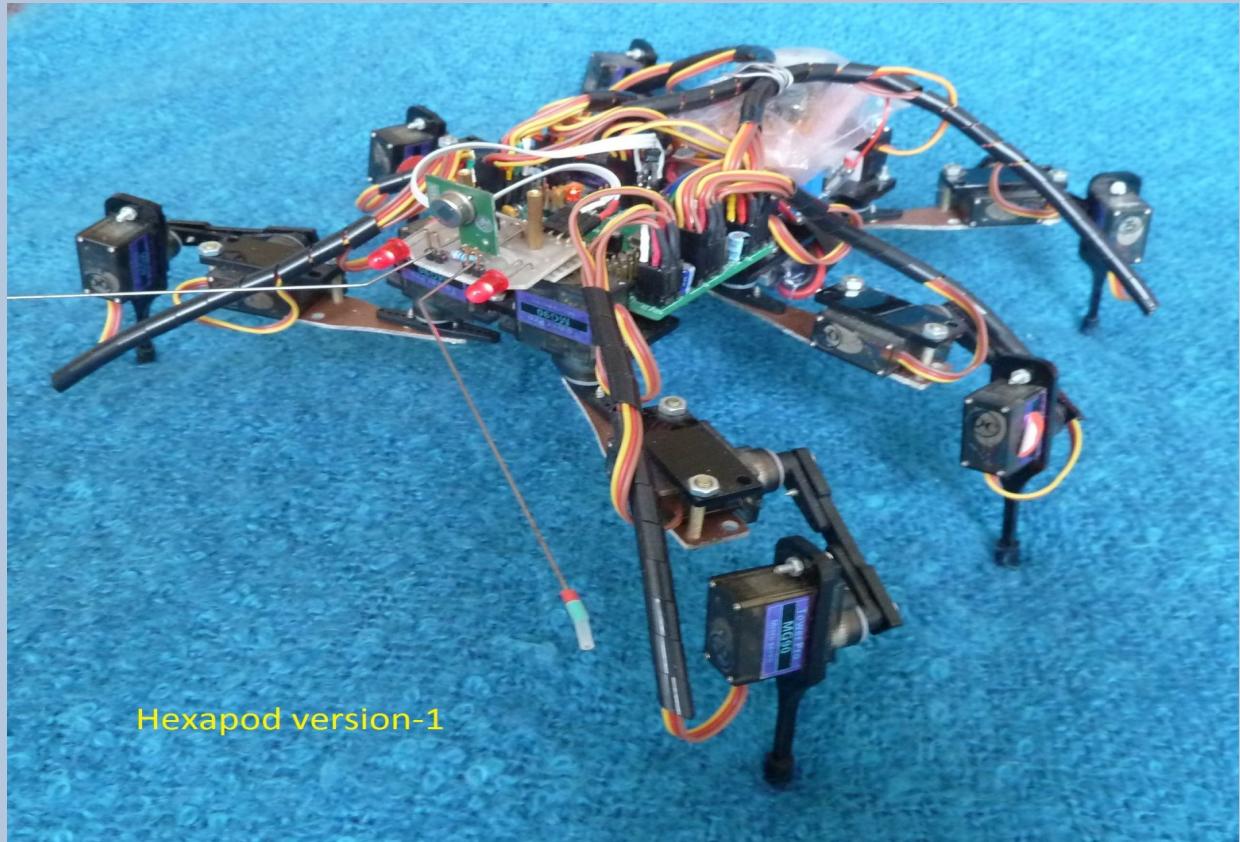
Biped brains MSP430G2553



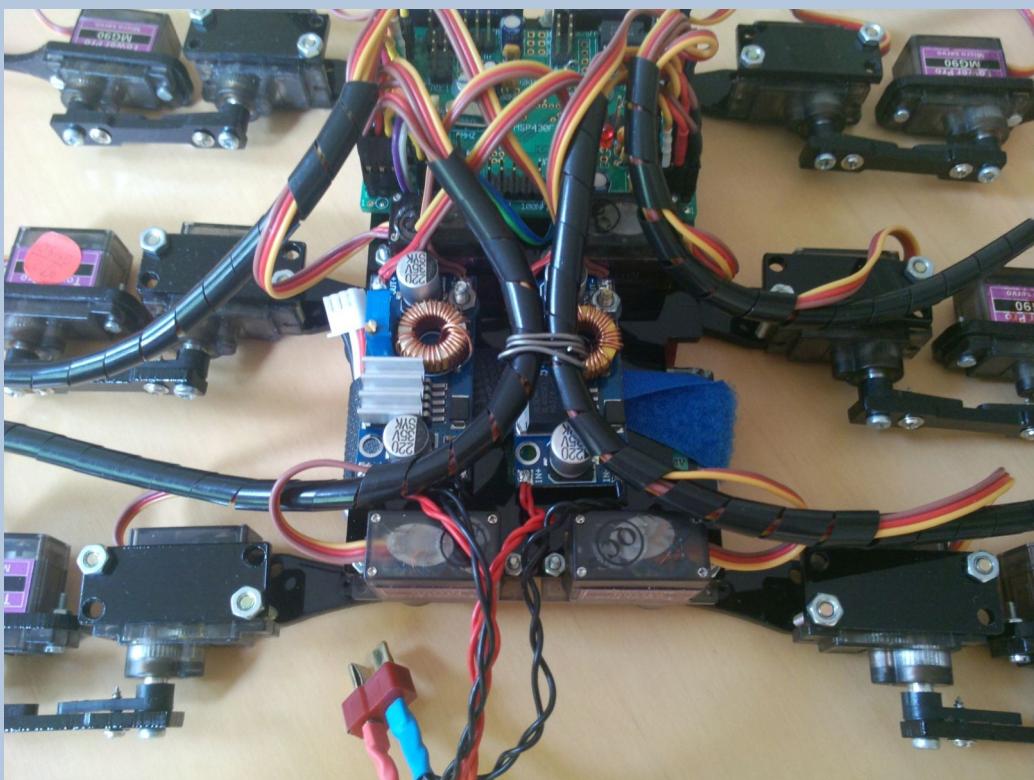
Running noForth on a Micro Launchpad



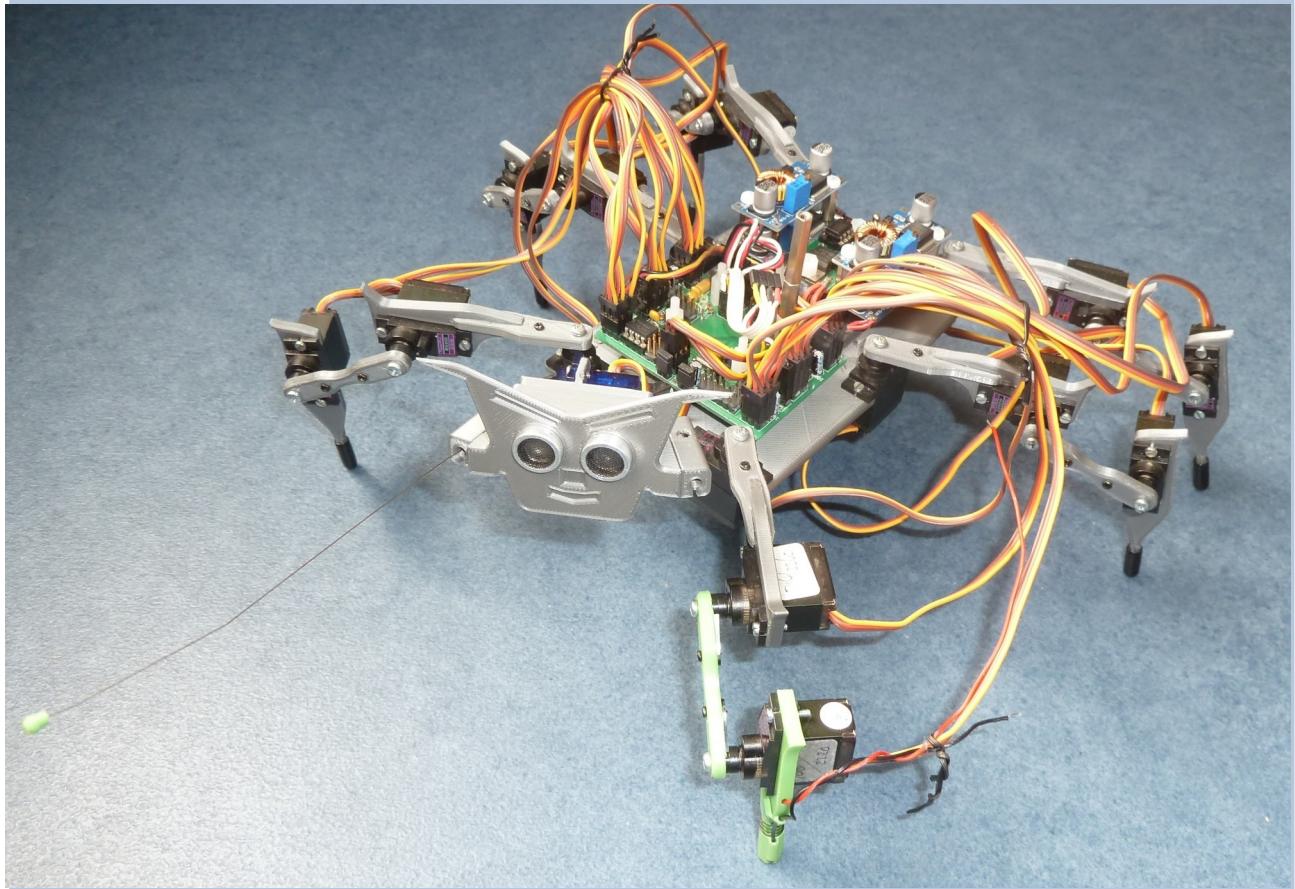
Hexapod V1 with MSP430F149



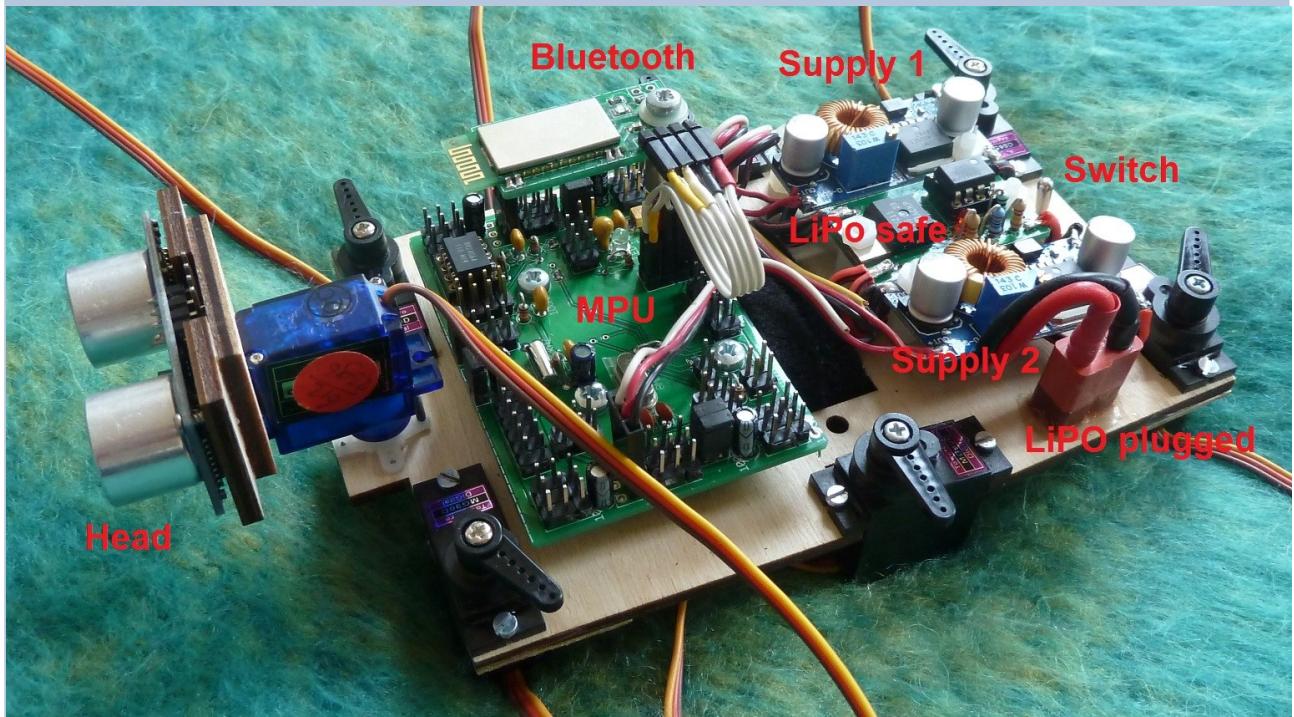
Hexapod V1 wiring



Hexapod V2



V2 frame with PCB modules



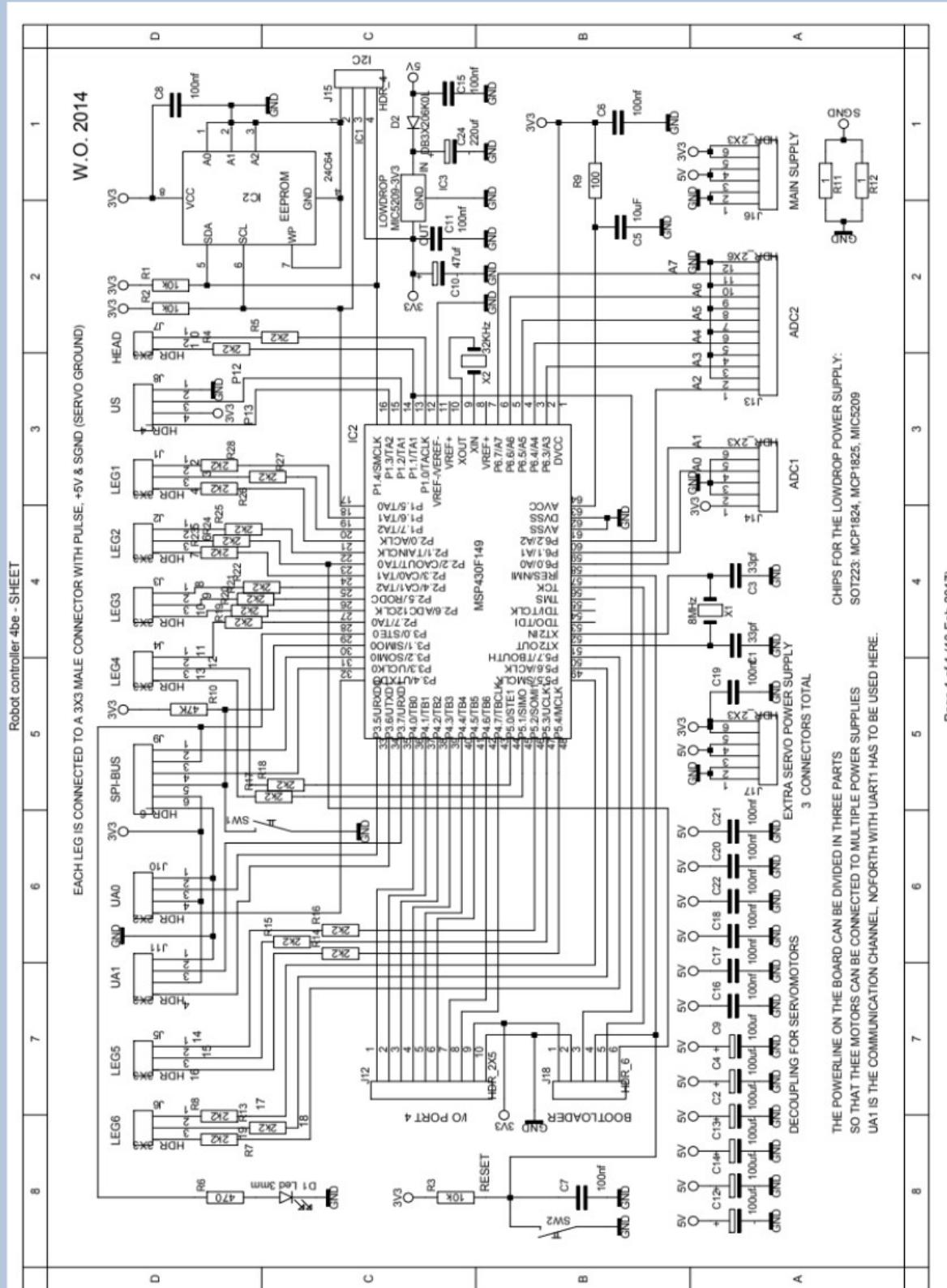
Hexapod V2 leg with touch



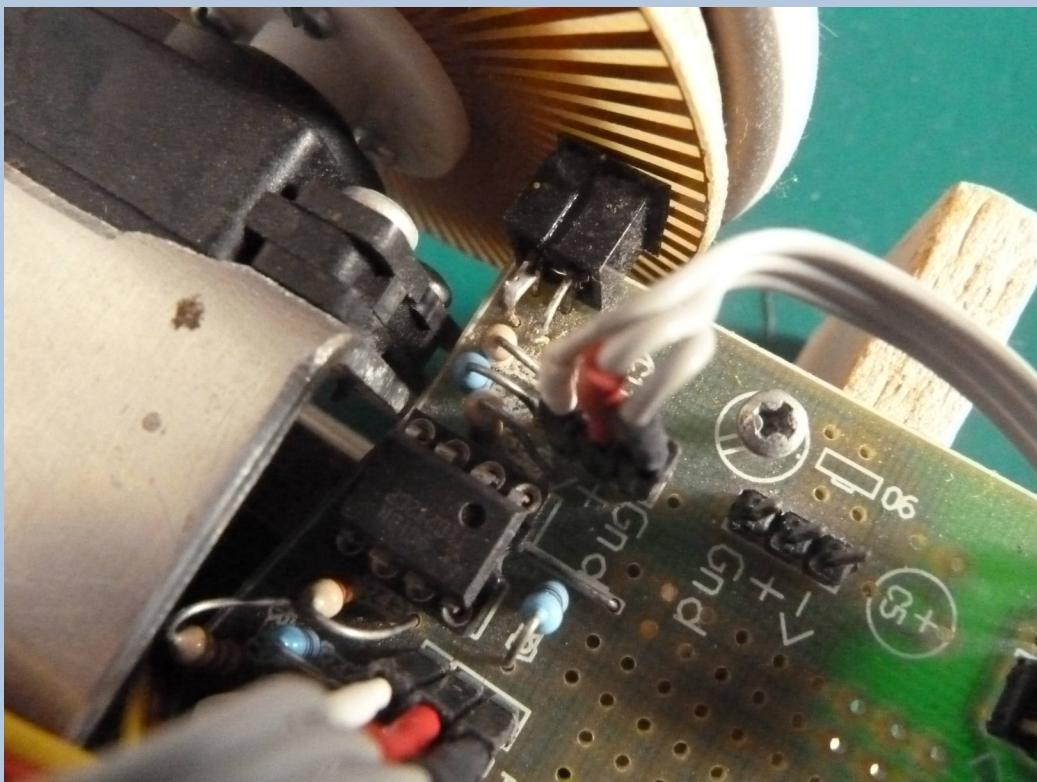
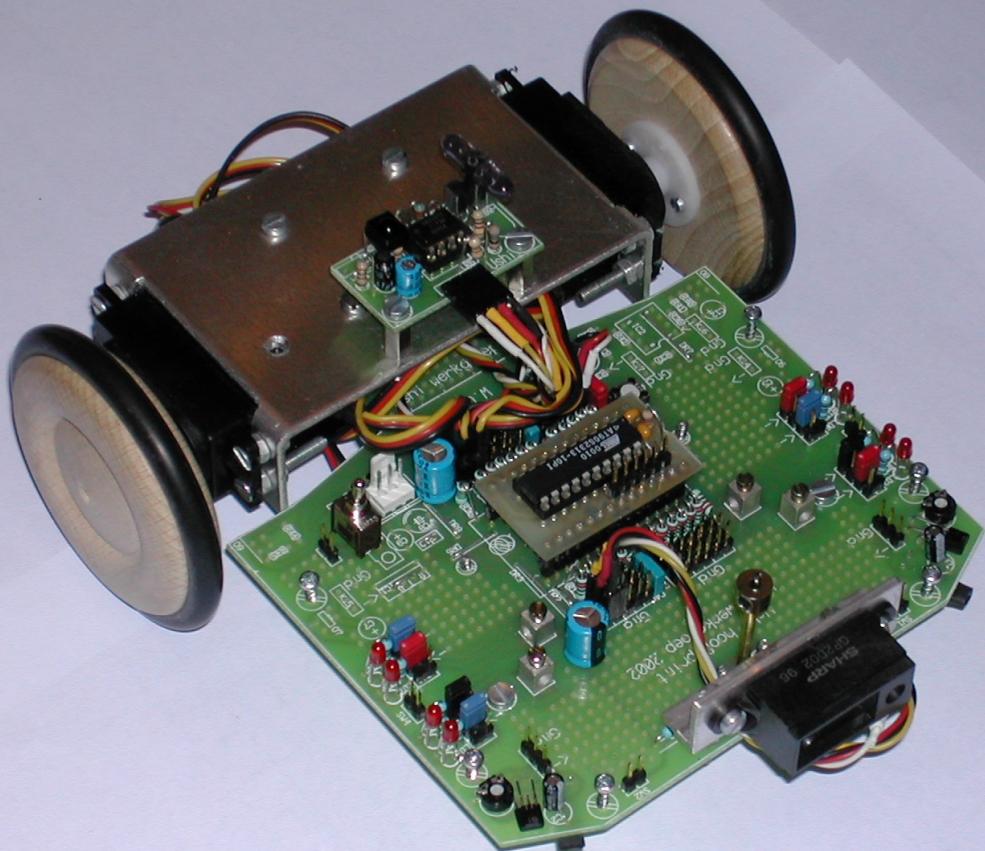
Hexapod communication



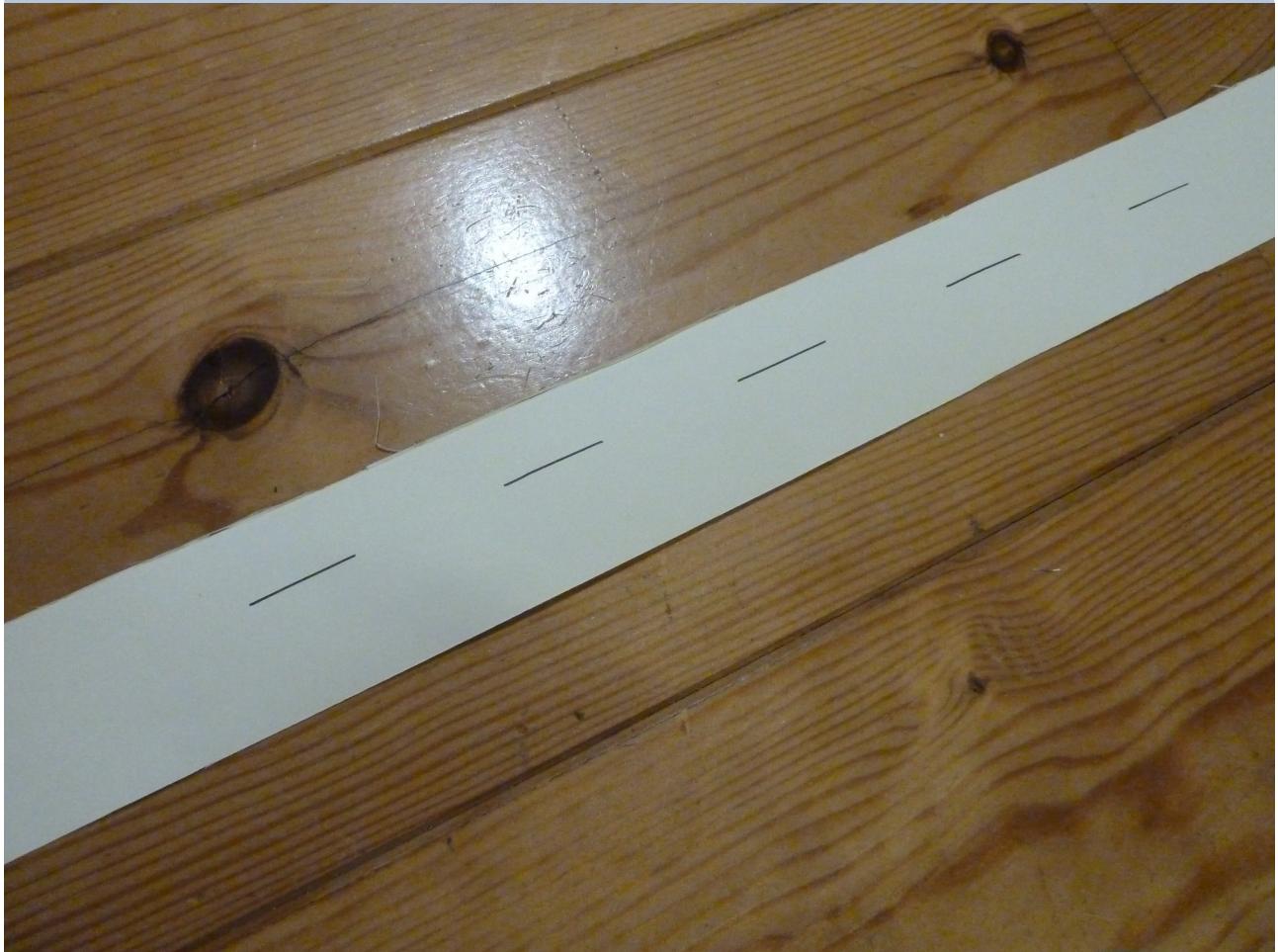
Hexapod controller schematics



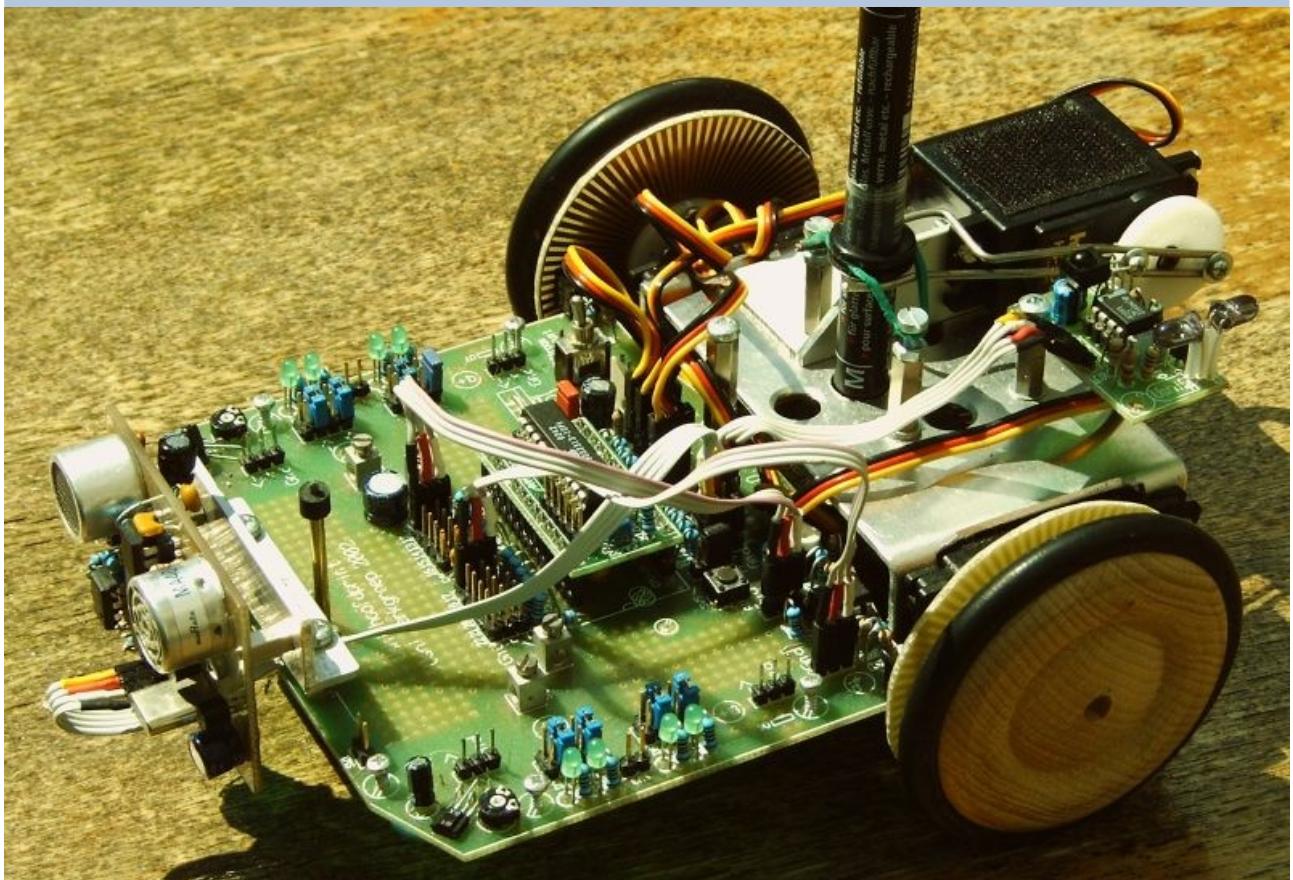
Ushi robot



Ushi straight line draw test



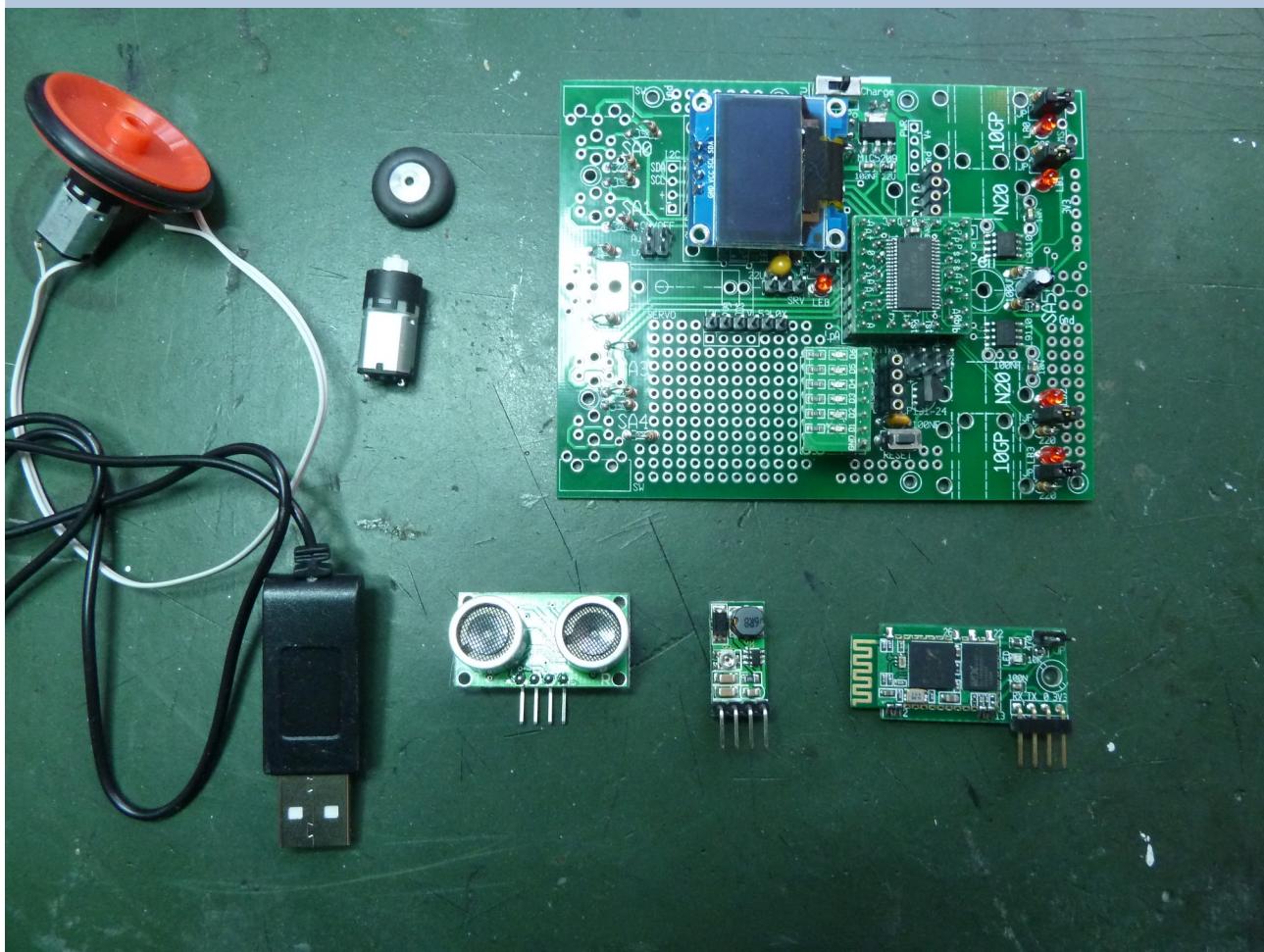
Ushi With AT90S2313



Added components:

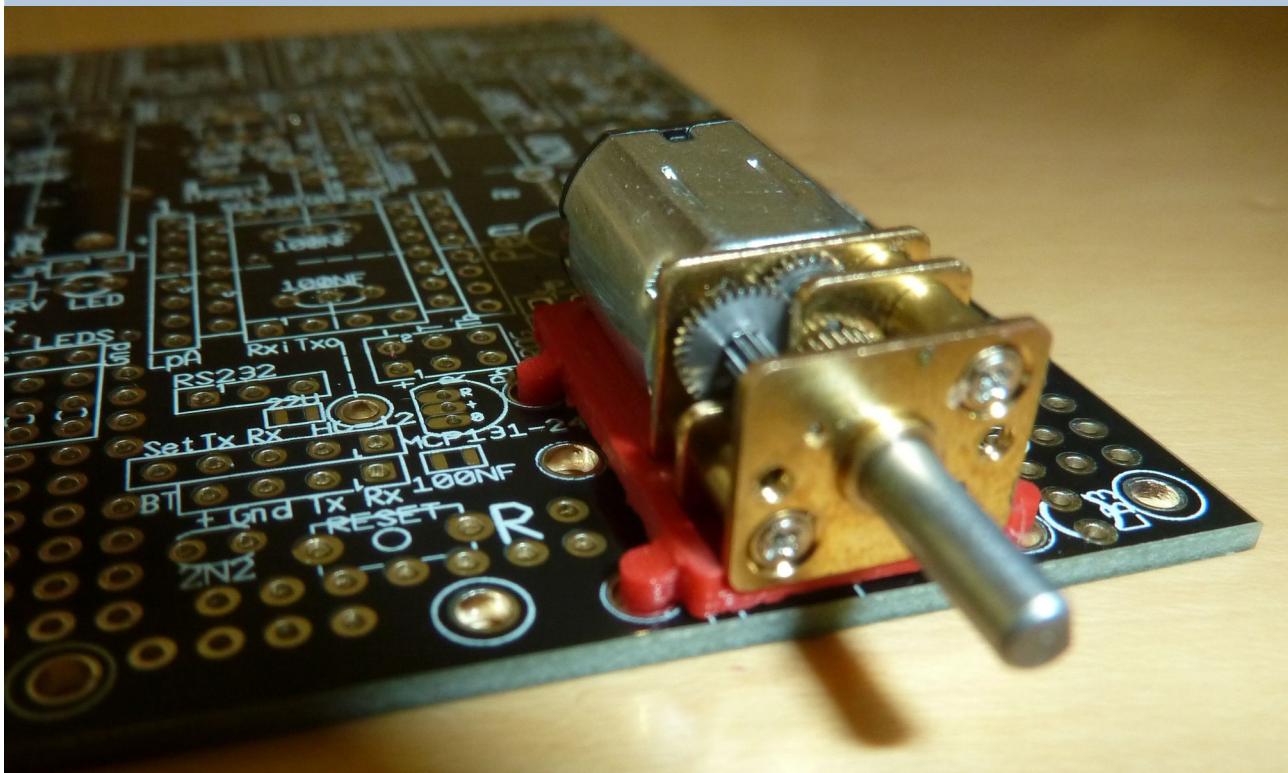
- * **MUS ultrasonic distance meter**
- * **Wheel feedback for better drawing**
- * **Infrared communication RC5)**
- * **Penlift with servo**

Cosey robot V1



- * **OLED**
- * **Bluetooth module**
- * **US sensor**
- * **Switched power supply**
- * **LiPo accu loader**
- * **Tiny DC motors with gear**
- * **Light sensor**

Cosey PCB, motor & plate

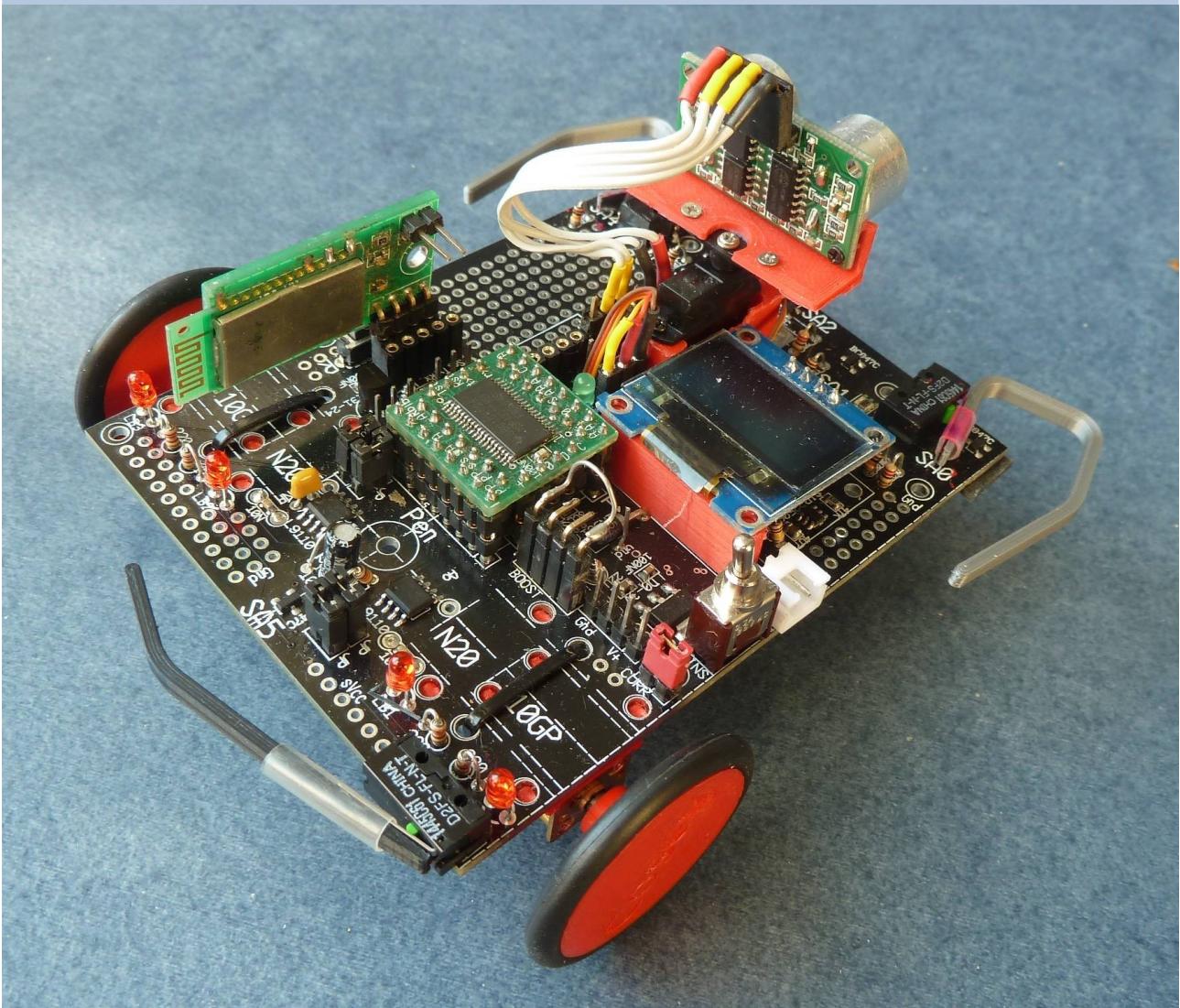


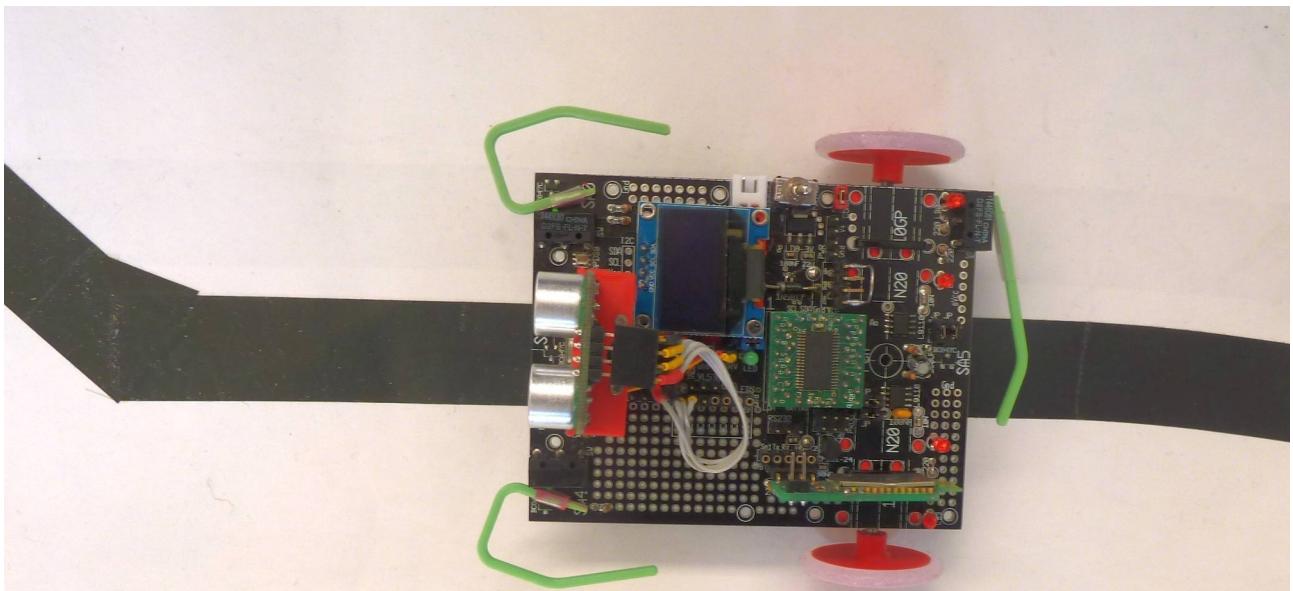
Cosey motors & wheels



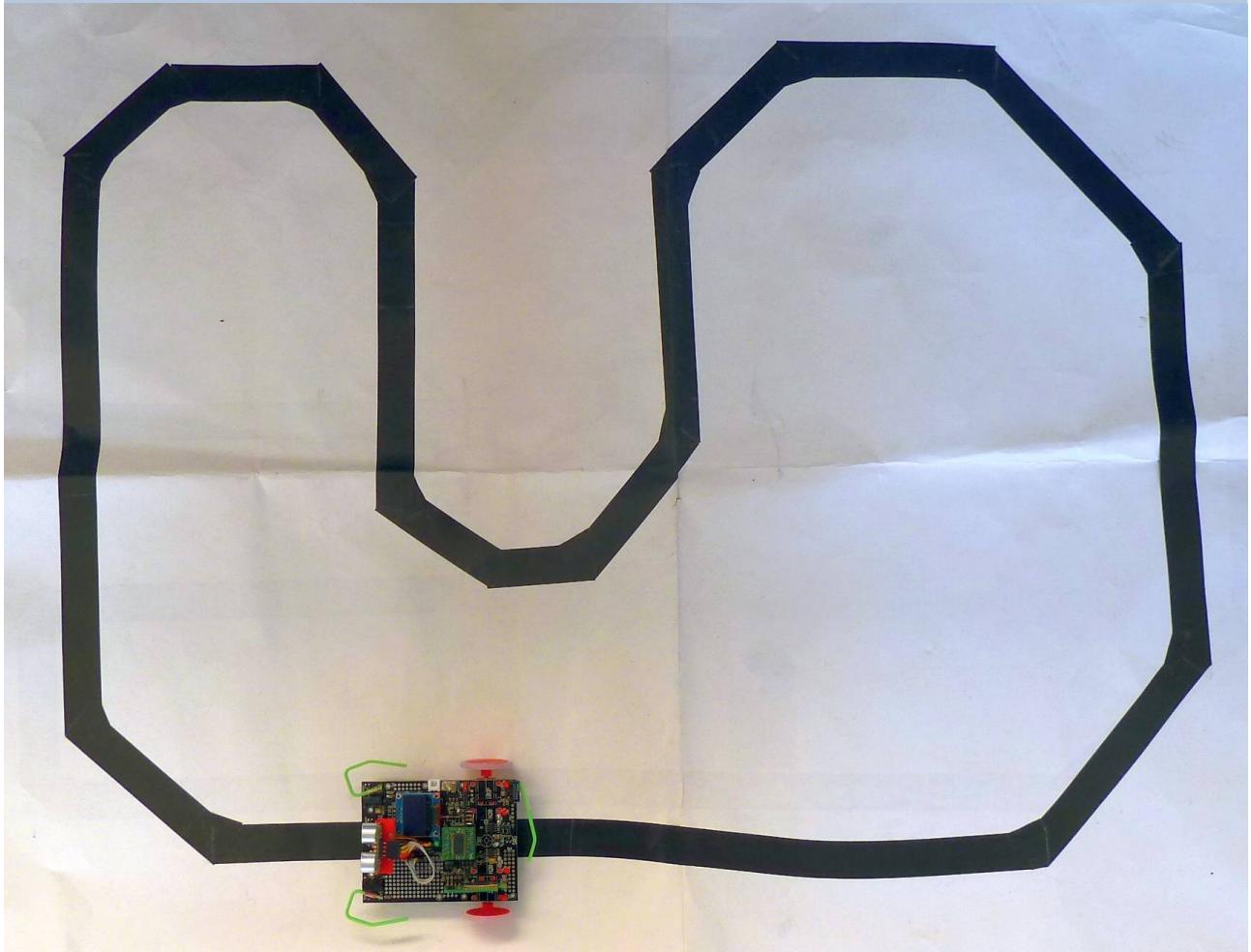
Cosey robot V2

With MSP430FR5949





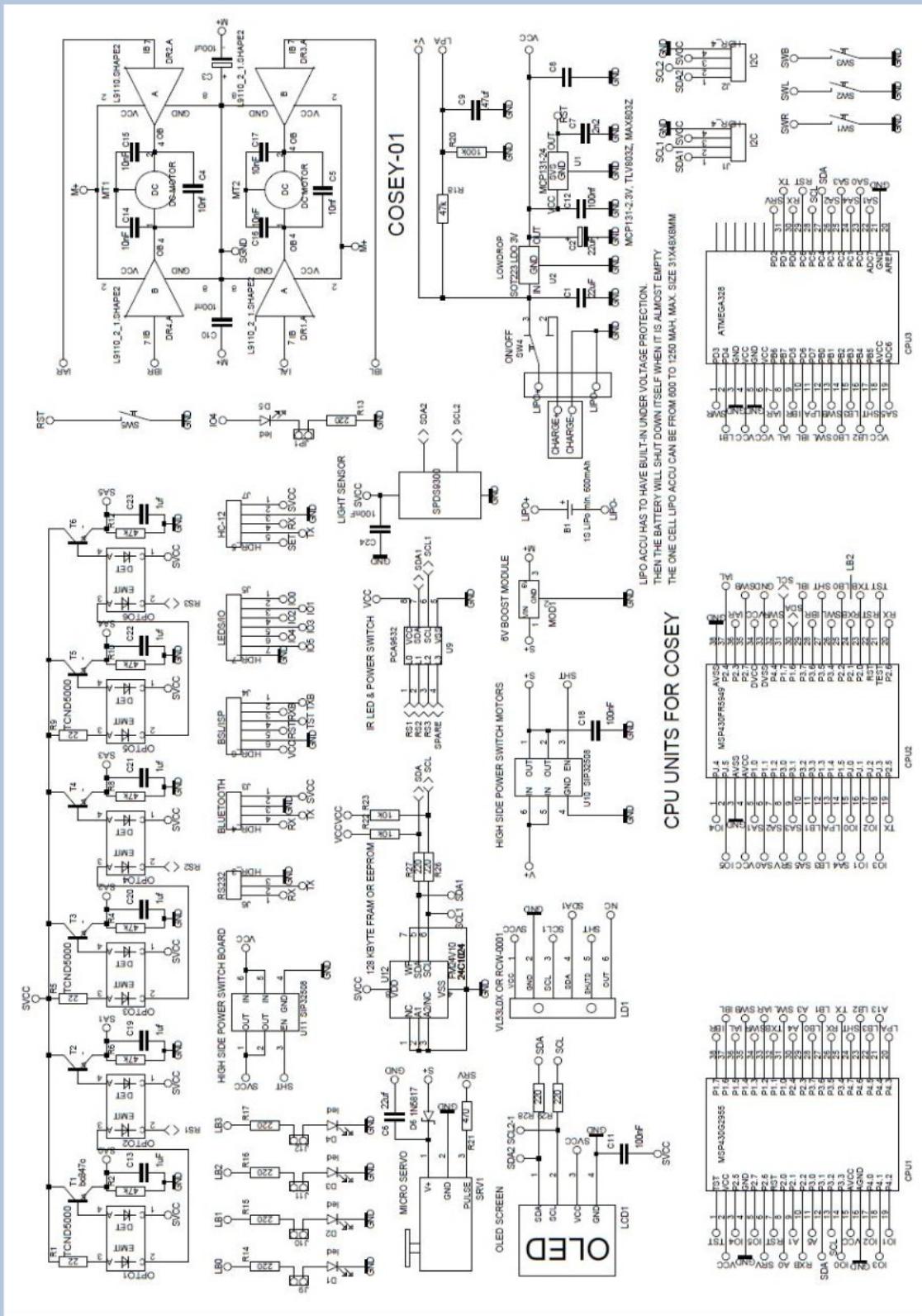
Cosey follows a line



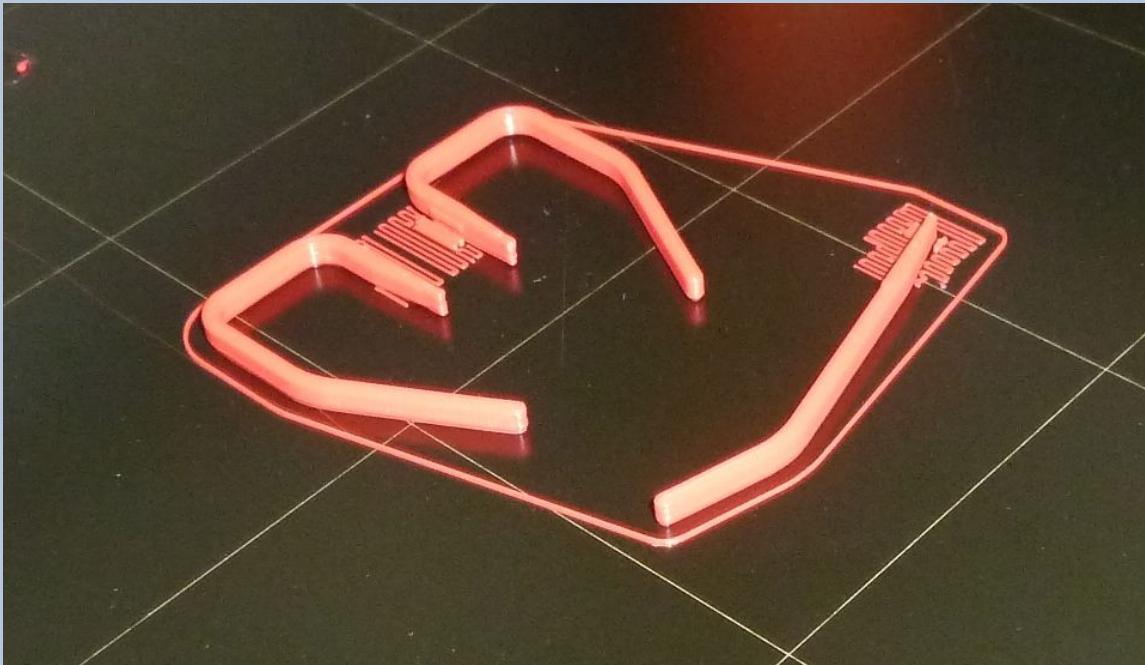
Cosey on game board

Cosey engineering

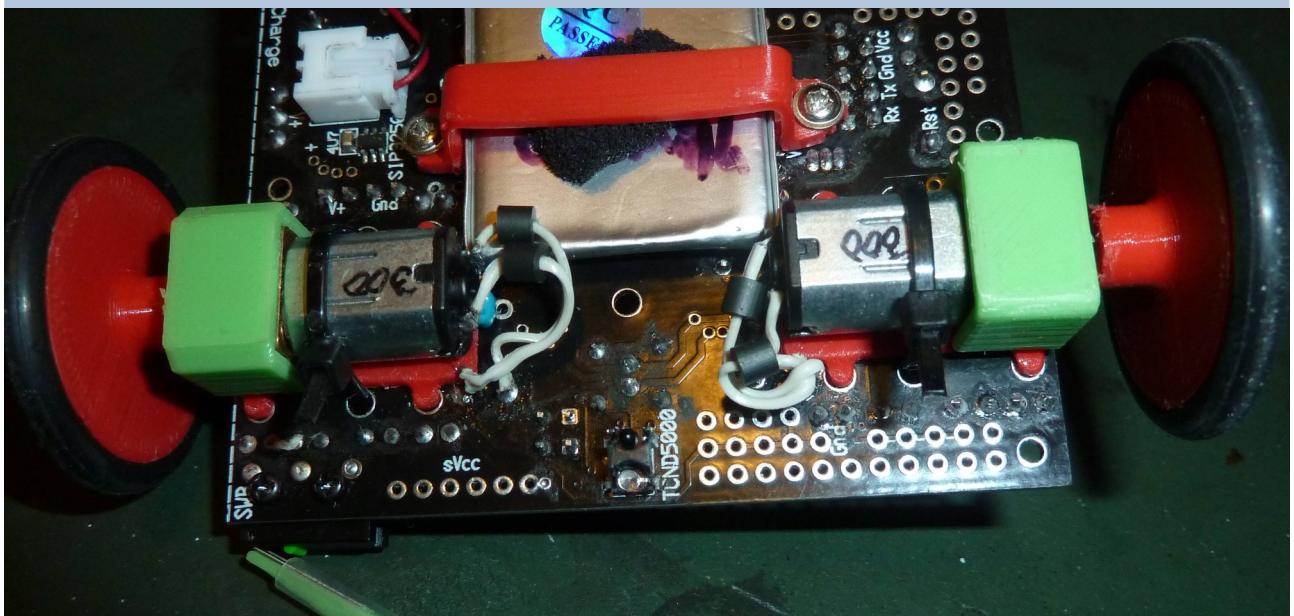
Electronic schematic



3D printed bumpers



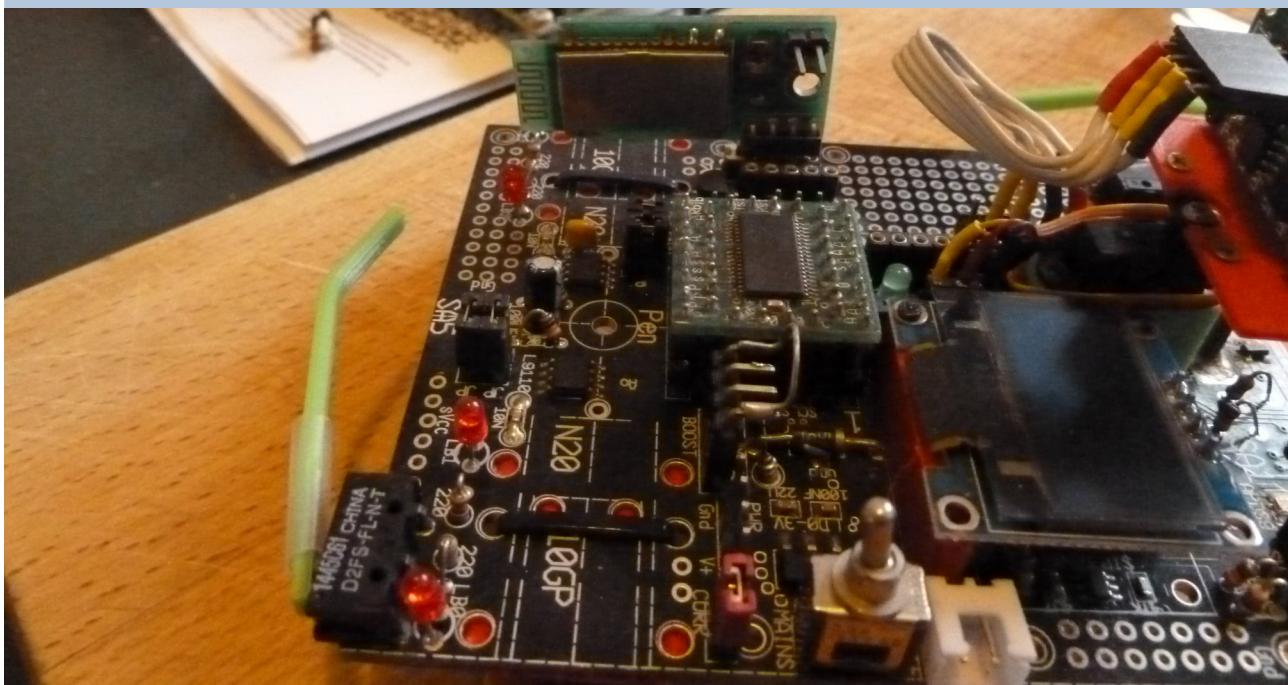
And other parts



Infrared sensors on bottom



OLED & bluetooth modules

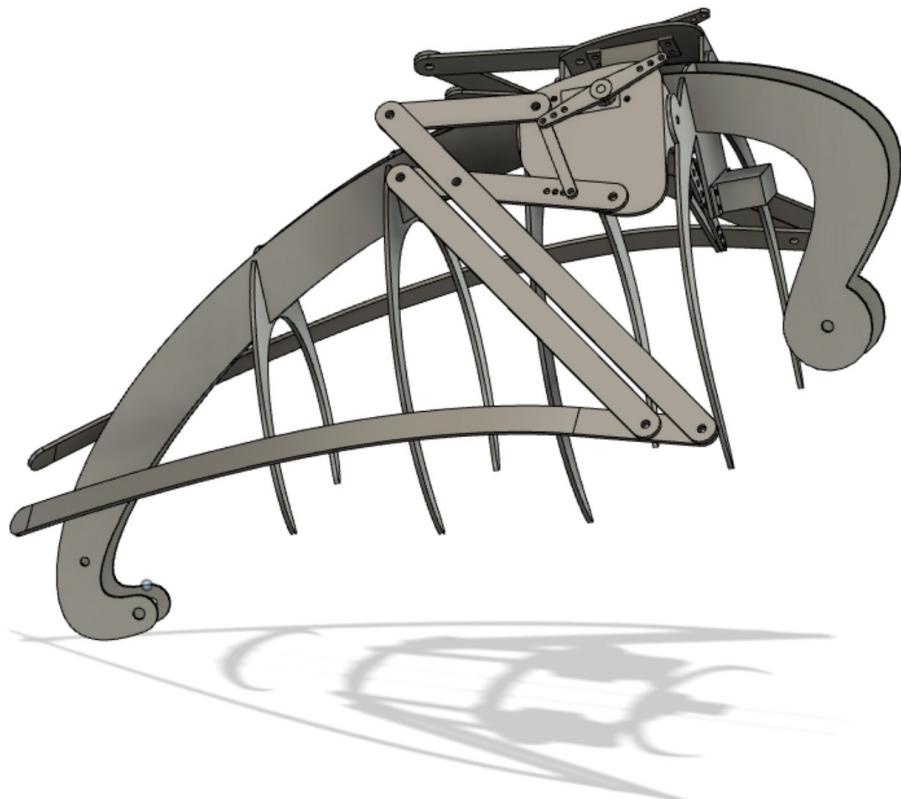


Cosey first game afternoon



Henny & Jeroen are winners

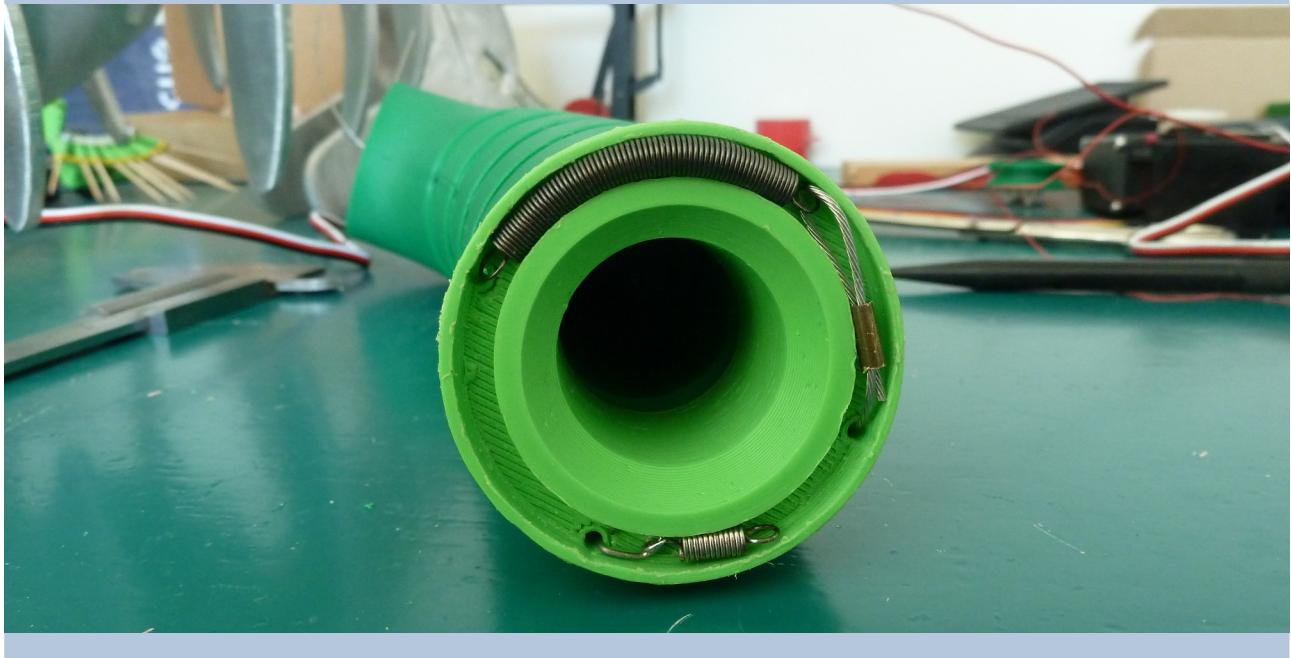
Bird robot sketch



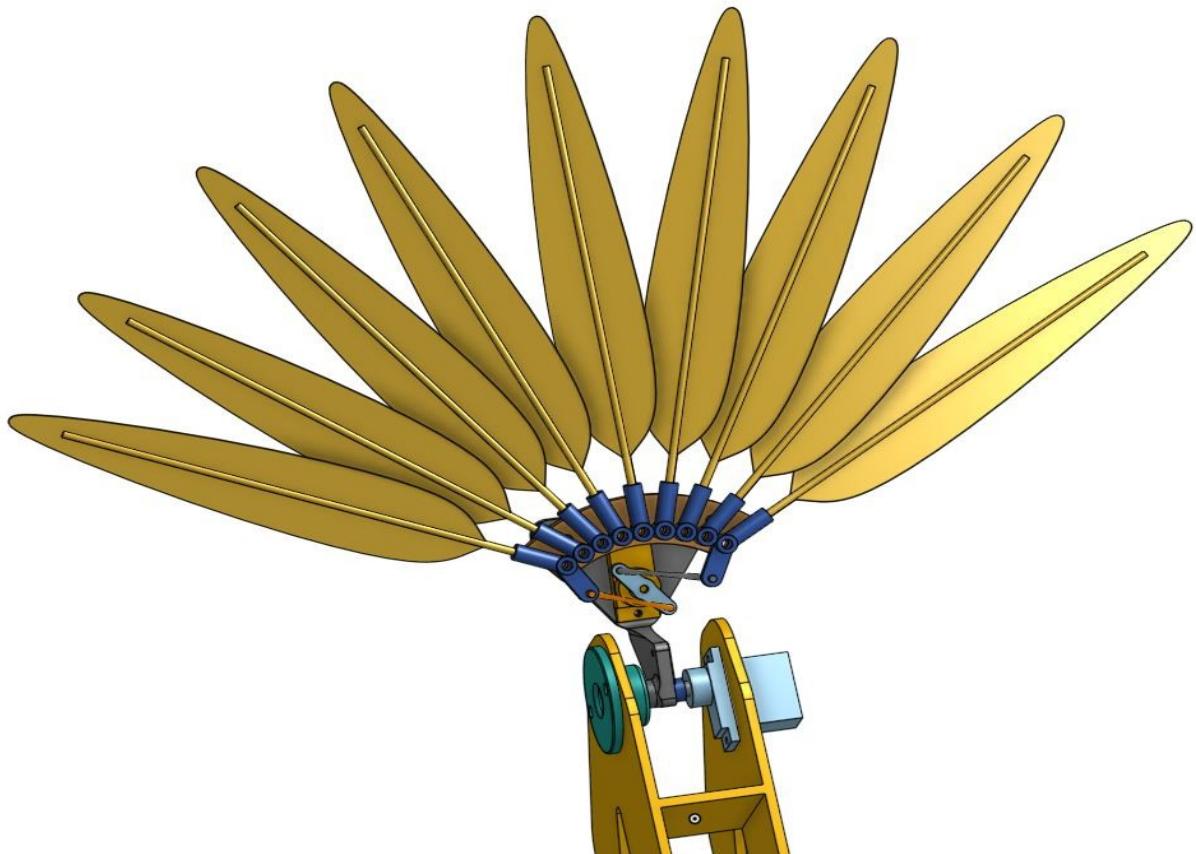
Bird robot metal prototype



Movable neck



Movable tail with feathers

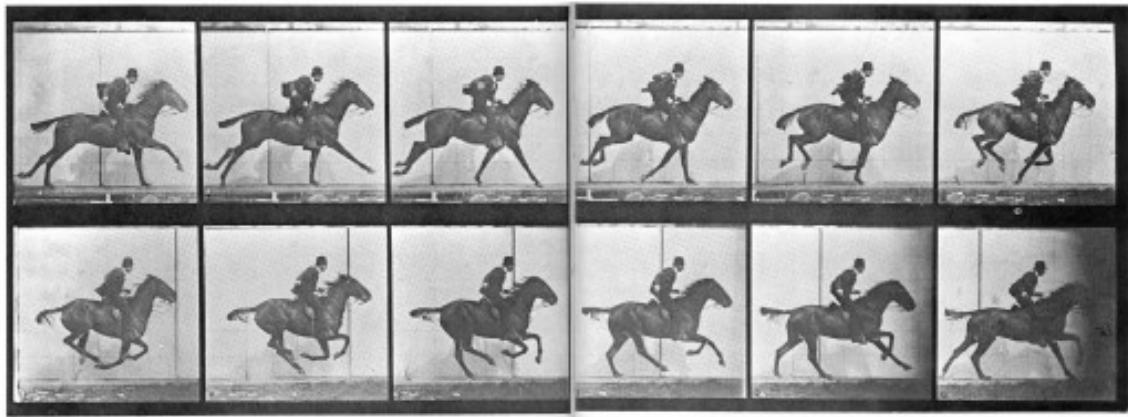
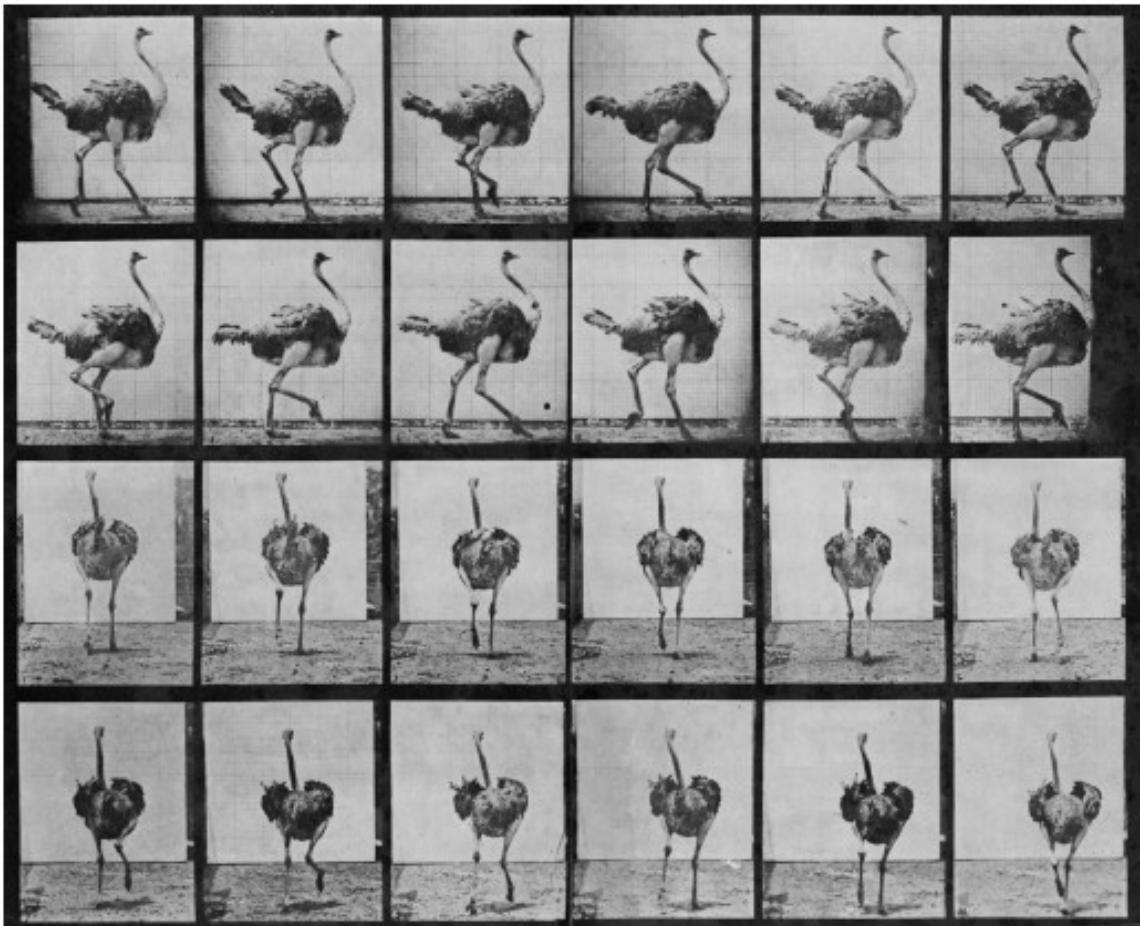


Hardware

- * **MSP430FR5949**
- * **Ten servo motors**
- * **One DC motor**
- * **US sensor**
- * **Sound unit**

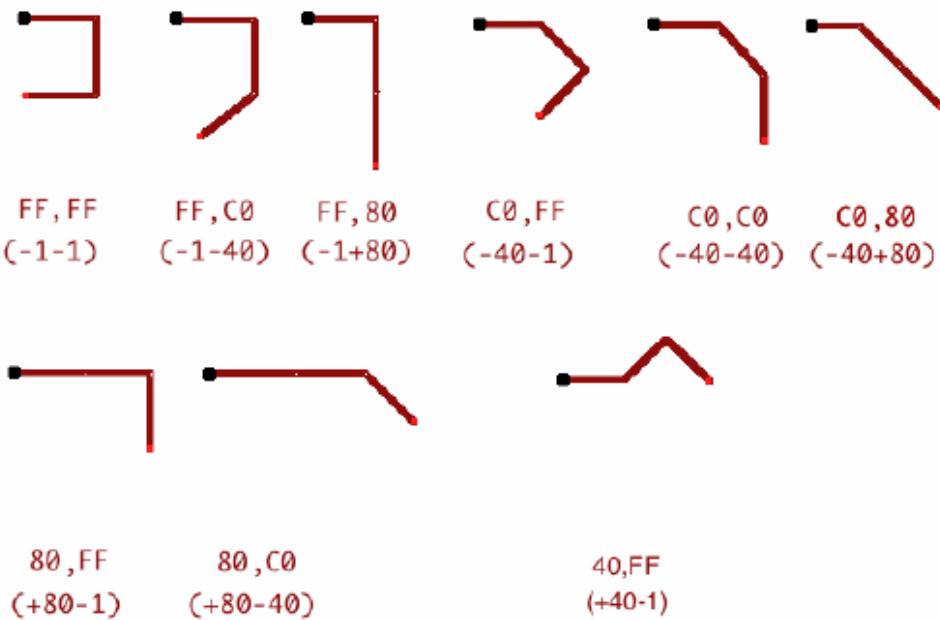
Walking robot study

Eadweard Muybridge:

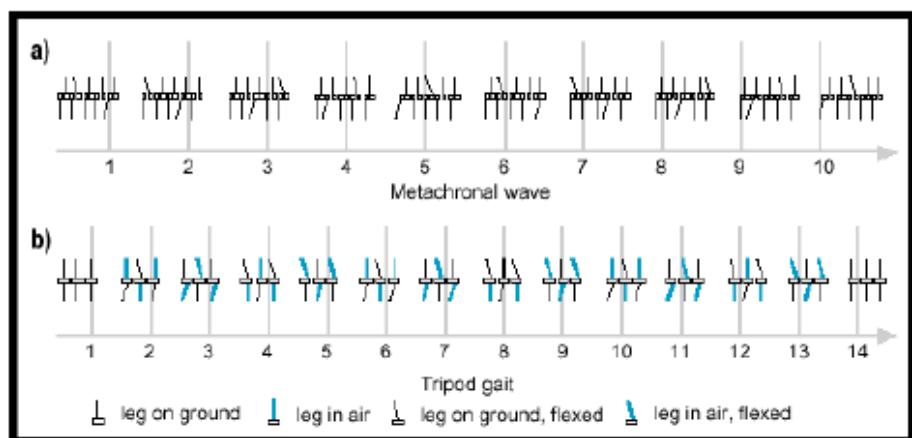


Pattern studies

Logical thinking:



Research on internet:



http://cronodon.com/BioTech/Insect_locomotion.html