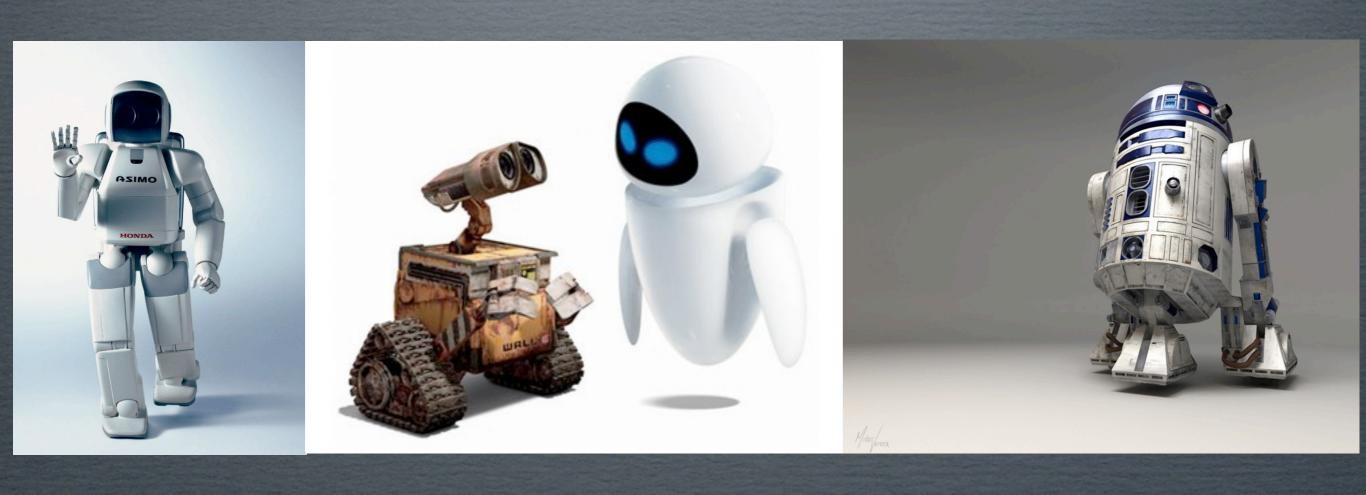
BUILDING A ROBOT

CHRISTIAN JOHANSEN



WHATIS A ROBOT?

- A ROBOT IS NOT A MACHINE.
- A MACHINE IS A DEVICE THAT NEEDS OUTSIDE HELP FOR IT TO WORK.
- A ROBOT IS A MACHINE THAT DOES NOT NEED ANY KIND OF OUTSIDE HELP TO WORK.

MY ROBOT, ACMP



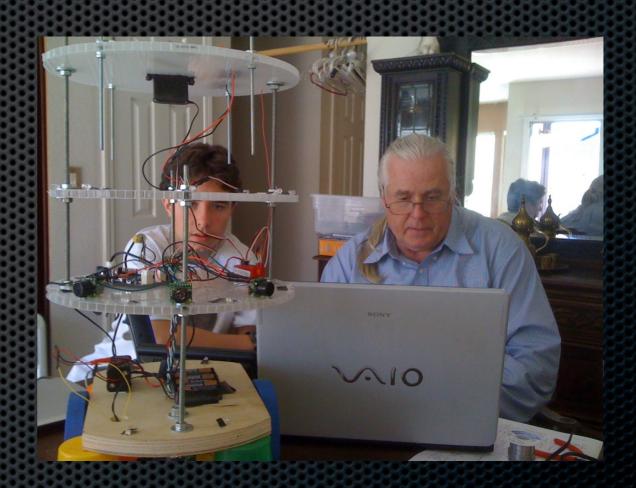
BEFORE



AFTER

MY MENTORS





GREG WEAVER

MIKE LORD

Parts of the Robot

- Structure
- Microcontroller
- Sensors
- Motors

- Program
- **■** LED's









CON

_clkmode = xtal1 + pll16x _xinfreq = 5_000_000

VAR

long SensorDist[4] byte obstacle

OBJ

motor : "SRMotorControl"

ping : "Ping" sensors : "MaxSonar" servo : "Servo32v7"

PUB Main

motor.Start motor.SetRamp(5) repeat 1 motor.MoveForward(40) CheckSensors AnalyzeData if obstacle == 0

elseif obstacle == 1 Left elseif obstacle == 2 Center elseif obstacle == 3 Right elseif obstacle == 4

DEMONSTRATION

OF

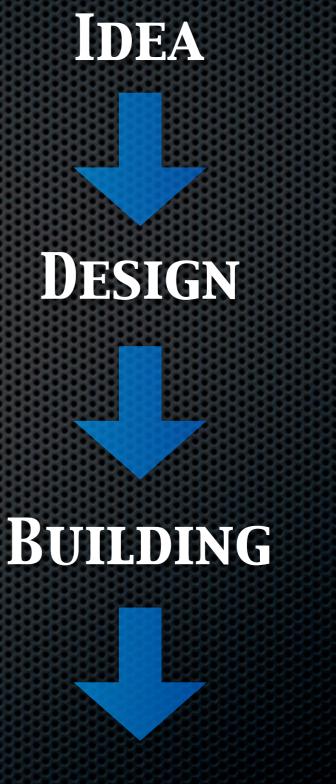
ACMP

(AUTONOMOUSLY CONTROLLED MOBILITY PLATFORM)

THE PROCESS

THE FINISHED PRODUCT





PROGRAMMING

THANK YOU'S

My Family

MY TWO MENTORS:
GREG WEAVER
AND MIKE LORD

TAP PLASTICS
AND DON CONARD

GOOGLE

PARALLAX