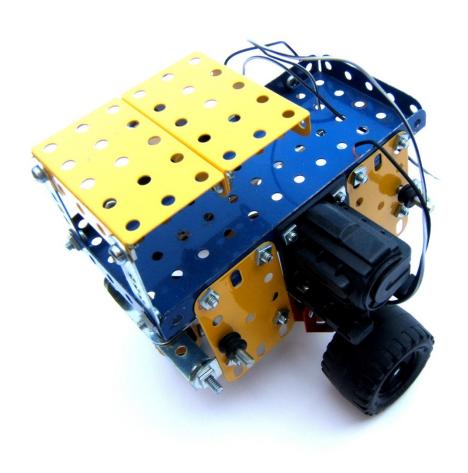


European Regional Development Fund - Investing in your Future - PN: 7-022-BE_i-MOCCA "INTERREG IVA 2 Mers Seas Zeeën Cross-border Cooperation Programme 2007-2013"

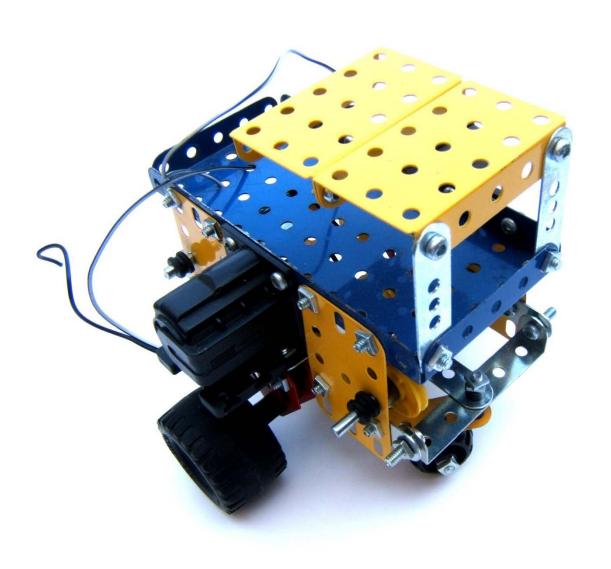
The Evolution of Mobile Robotics at the University of Greenwich (in pictures)

Dr R C Seals

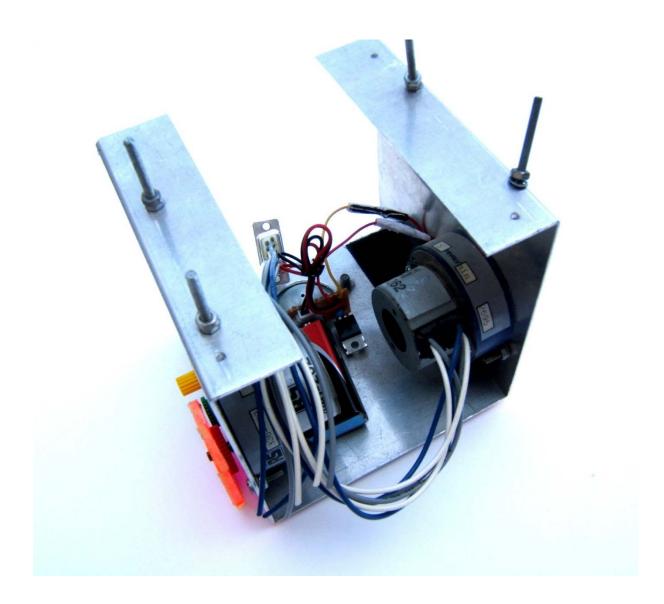
The Early Days



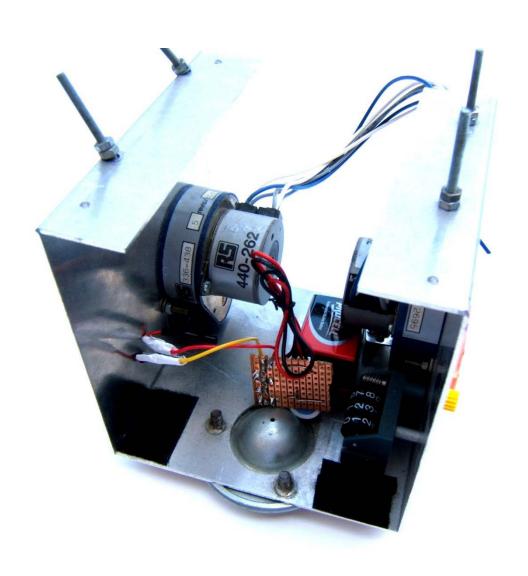
Another Veiw



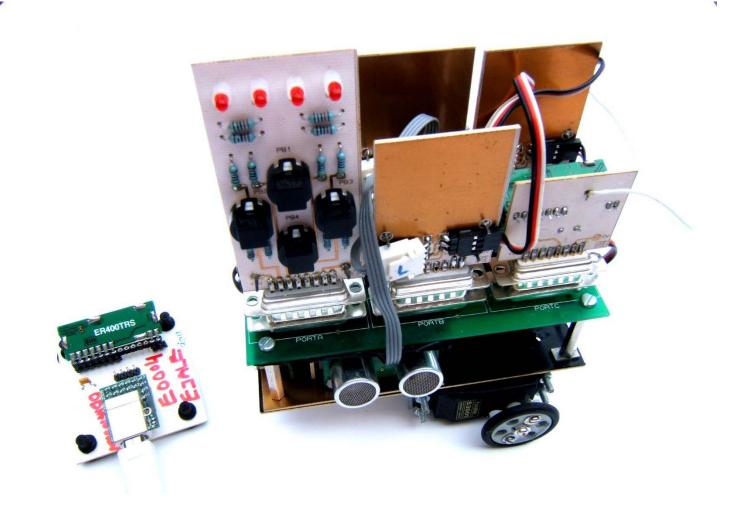
Another Variant



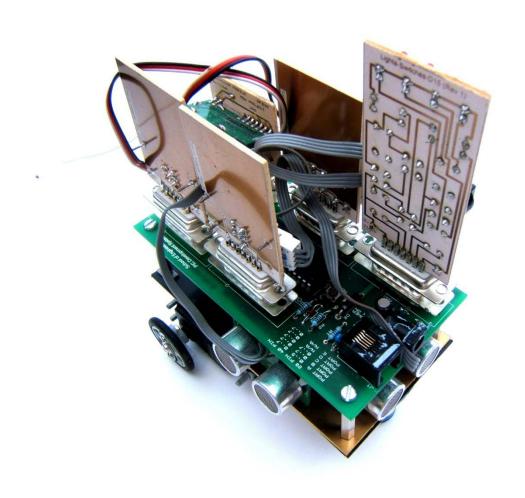
Internal View



A Modular Approach was Tried



Functional but complicated and heavy



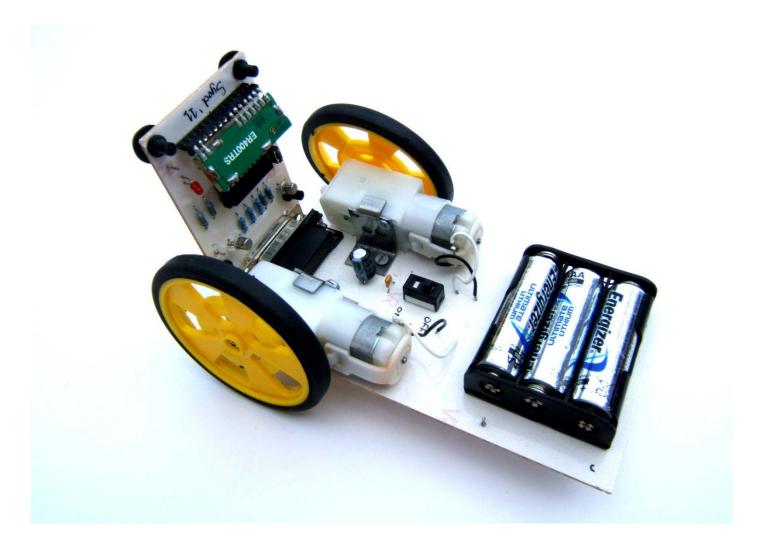
Infrared Controlled Helicopter



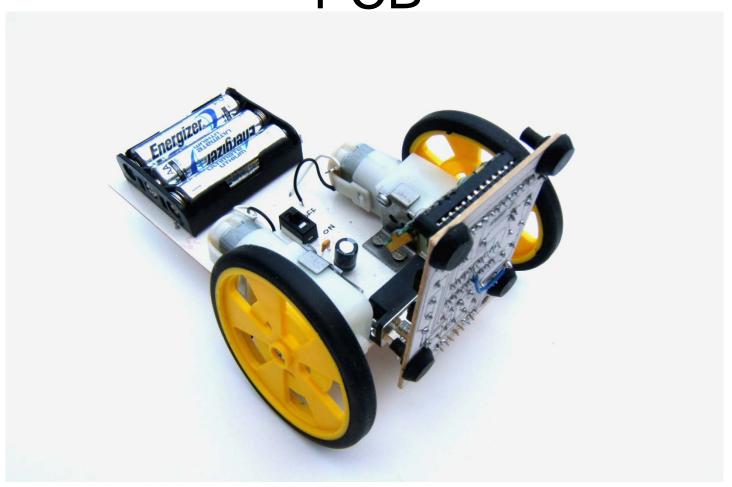
Infrared Controlled Digger



A Student Centred Design



Pre-constructed Motor Chassis with Student designed and made control PCB



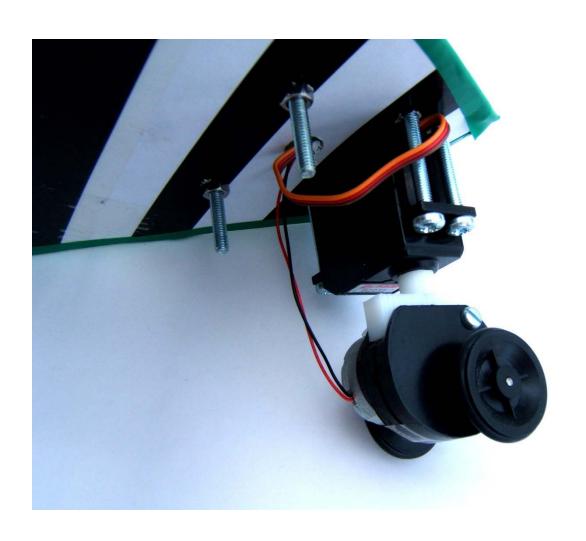
Holonomic



Small DC motor and gearbox with RC Servo steering



Each Wheel Unit is Independent



The First iMOCCA Mobile Robot



Dual DC Motor with H-Bridge Driver and WiFi Interface



A Later Version with WiFi Replaced with Bluetooth



Distance Sensor Scanned by a Small RC Servo Motor



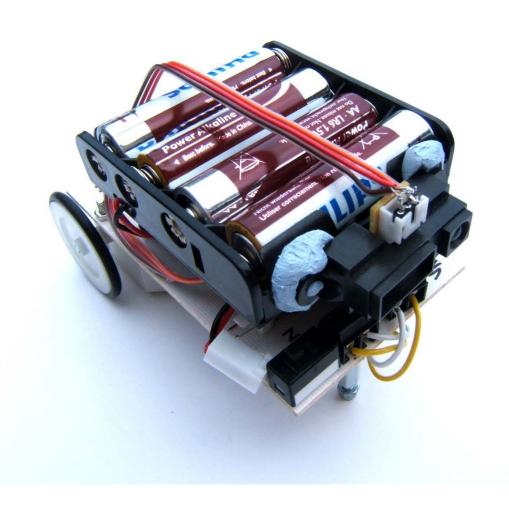
Student Designed Control PCB



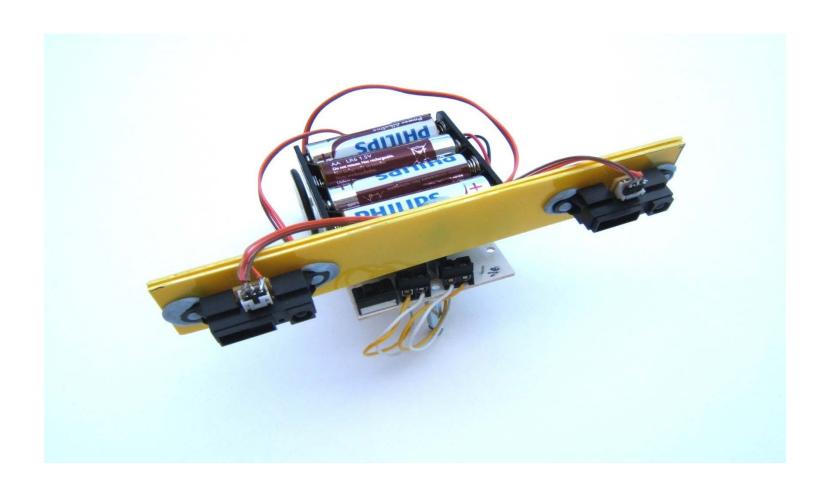
Smaller Herd Mobile Robot with Bluetooth Link



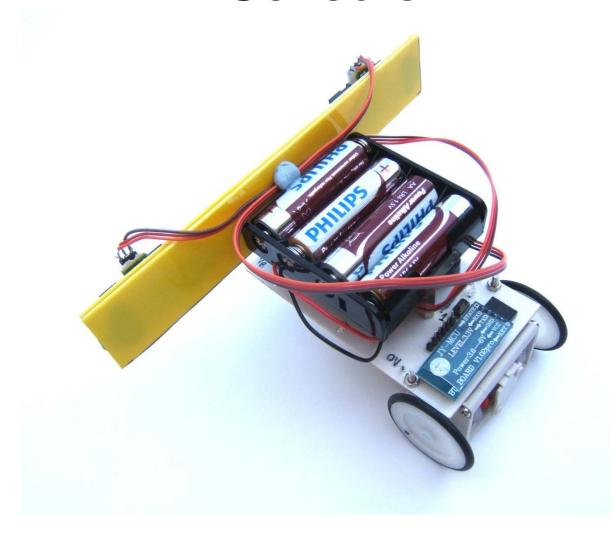
Fixed Orientation Distance Sensor



A Follow-Me Cart



Dual Fixed Orientation Distance Sensors



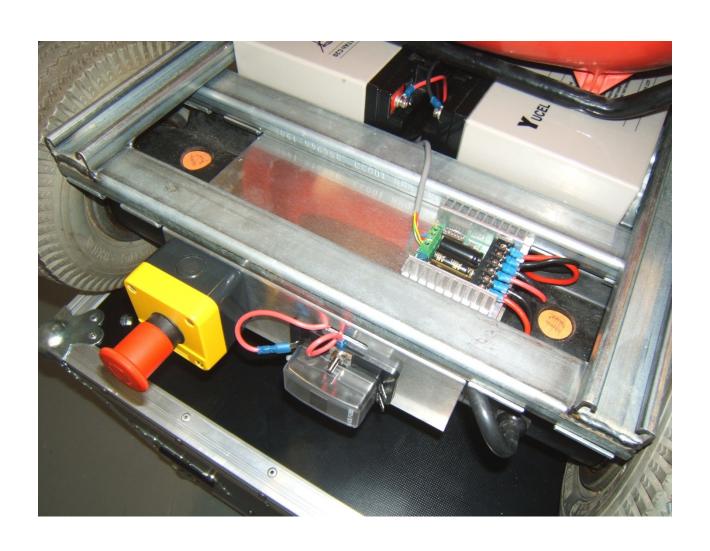
Something a Little Larger



Rear View



Safety Cut-off and Motor Controller



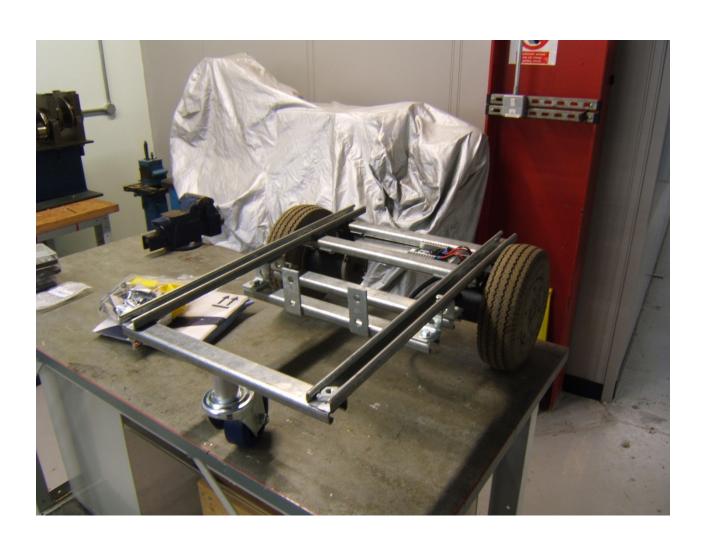
Hand Controller



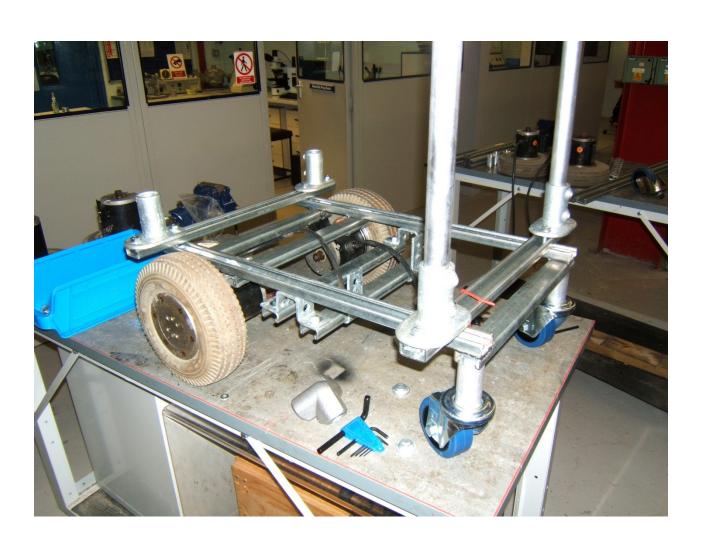
The New Herd is Almost Ready To Go!



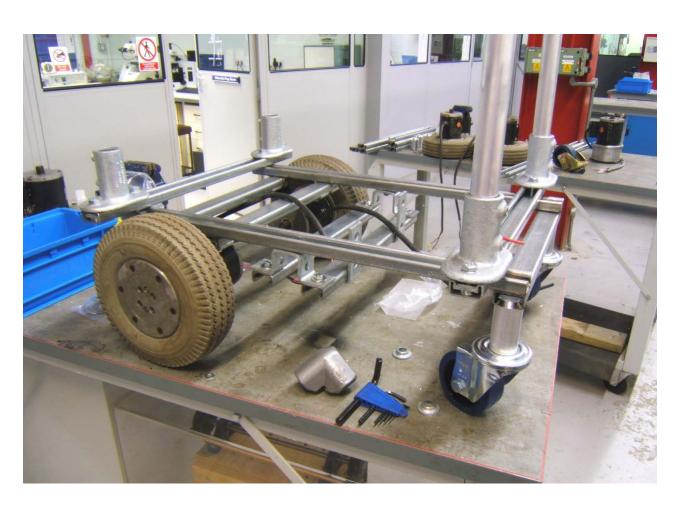
Then There Were Three



The Next Step-Up!



Converting a Sit-on Cart to a Stand-on Cart



The Finished System



Two Safety Cut-outs



The Future?



It Just Needs Painting University Blue

