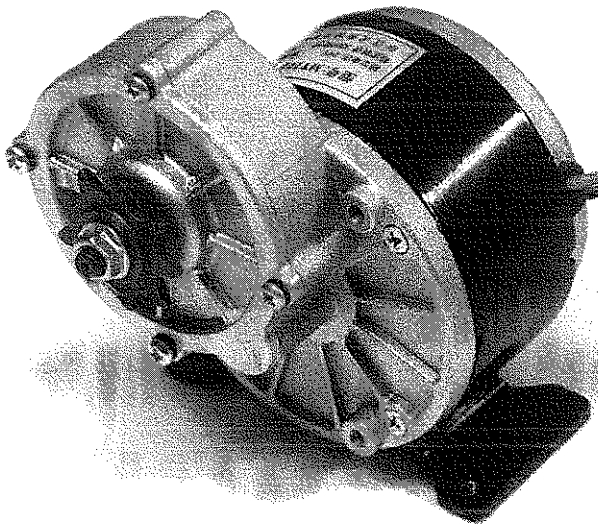


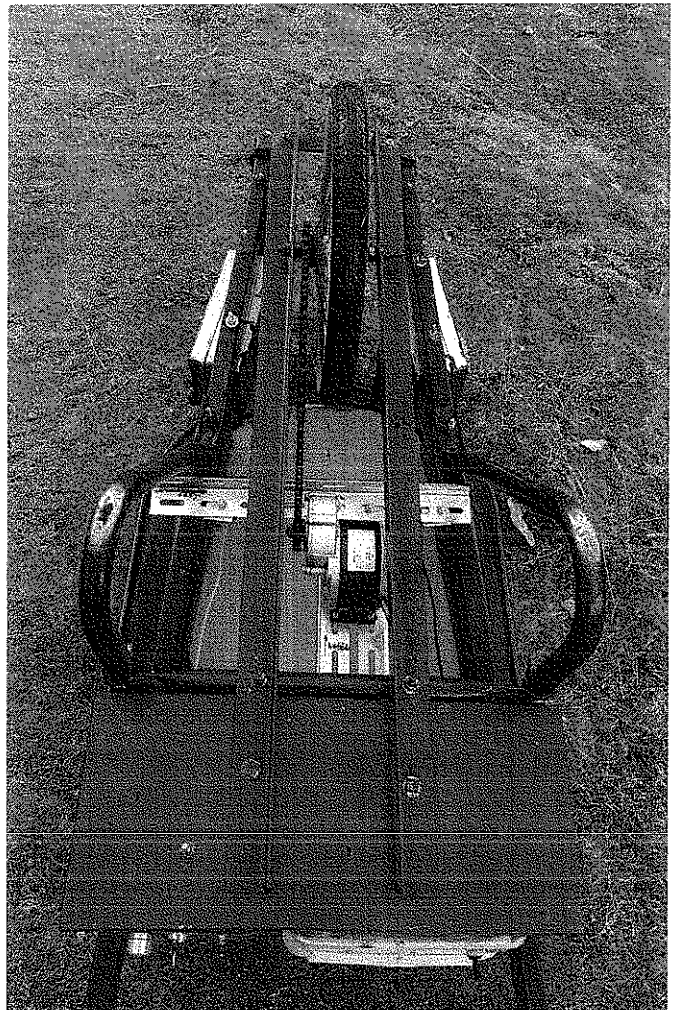
Skill Swap #2

Fitting a 24 Volt DC Motor to a Standard Wheelbarrow.

The single wheeled standard wheelbarrow is one of the most versatile pieces of garden equipment. But when needed on rough and/or hilly ground it becomes quite an effort to use. Fitting an electric motor is a solution but there is little advice on how to select sufficiently robust components. The solution has been to fit a rigid chassis, the rear wheel less the hub brake mechanism from a kiddies bicycle, a BMX chain, a 24 volt 250W DC motor, a proper DC motor speed controller (both from Motion Dynamics) and two SLA 12 volt batteries. It works and can easily handle loads of 20kg on moderate slopes. (Maximum load is around 40kg.)



MY1016Z United 250W, 24V DC Brushed Gear Motor, 400 RPM



Skill Swap #1

Using the MICROMITE Microcontroller.

A Digital Bluetooth Barometer.

Of all the Internet of Things (IOT) microcontrollers available today the Australian designed Micromite is probably the easiest to use. As an example the digital barometer introduces many of the features of this versatile \$20 chip. When paired with your Android mobile phone it provides a 100% mobile, internet free, digital barometer.

