

30 Exciting (STEAM*), Pat's Projects you can Build, Code and Run with a Microcontroller.

-Picaxe Pat McMahon—3/2/2018

NOTE— All of Pat's Projects use his Picaxe 14M2 Blackboard Microcontroller, but you can use any other suitable Microcontroller.



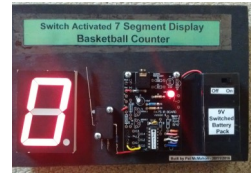
1 - LED Light Tower



2 - 5x5x5 LED Cube



3 - Basketball Counter



4 - Switch Activated Jumbo 7 Segment Demo



5 - 10 LED/12Tunes



6 - Light & Sound



7 - Infrared Robot Buggy



8 - "Rock & Roll" Marble M/c



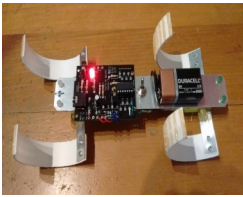
9 - "Ring Around" Marble M/c



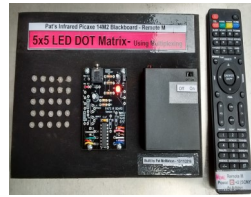
10 - Hexapod Robot



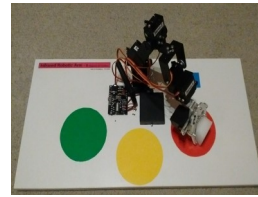
11 - Animated Disc



12 - ReCycloBot



13 - 5x5 Dot Matrix Display



14 - Robotic Arm - Servo



15 - Interactive OLED



16 - Ultra Sonic Tape Measure



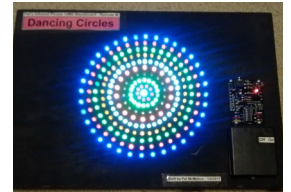
17 - Tri Temp Probes



18 - Analog/Digital Number Display



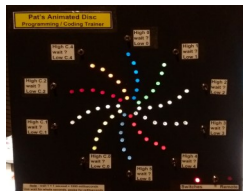
19 - Servo Coding Demo



20 - Dancing Circles



21 - Dancing Squares



22 - Animated Disc Demo



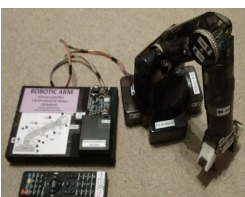
23 - Swinging Musical Jingle Bells



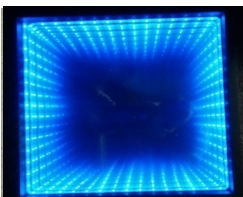
24 - 5x5 Coding Demo



25 - 5 Bi-Directional DC Motors



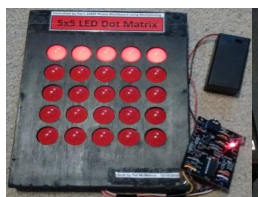
26 - Robotic Arm DC Motors



27 - Infinity Mirror



28 - Pneumatic Can Crusher



29 - 5x5 Dot Matrix 20 mm Jumbo LED's



30 - LED Light Bar (25 LED's)

* STEAM - Science, Technology, Engineering, Art, Mathematics.