

## PCDWorks Motor Development Lab

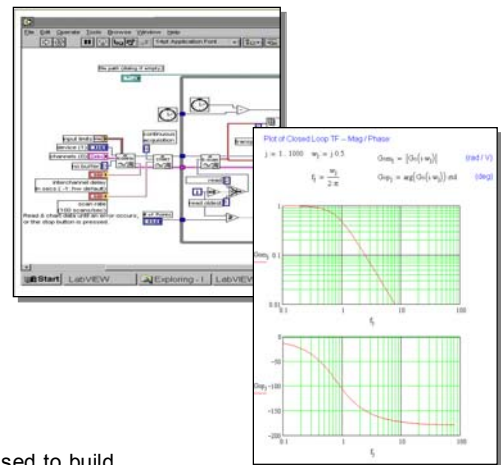
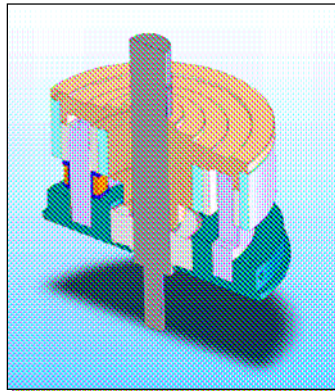


**PCDWorks has designed and built a motor research and development lab** dedicated to proof-of-concept, design, prototyping, test and evaluation of motors for a variety of motion control applications. From precision voice coil motors to the highly powerful and energy efficient Brushless DC motors currently being developed for our military and corporate clients, PCDWorks has designed them all.

We focus our extensive experience on motion control design and development on your application-specific requirements. PCDWorks motor controllers can be tailored to suit your requirement such as power efficiency, speed, torque, size and cost target. We design and develop customized integrated gear heads, drive shafts, housing design and mounting options as well.

**Our prototype shop** has full CNC capability and the ability to quickly download SolidWorks™ 3D CAD models for rapid prototyping of highly precision mechatronic components.

**PCDWorks BLDC Motors** feature highly efficient Quadrant magnetic architecture using powerful NeFeB magnets and proprietary powder iron cores combined with electronic commutation. The design ensures long, reliable operating life, high energy efficiency, superior heat dissipation characteristics, performance programmability and the highest energy output pound for pound, of any electric motor ever!



**MathCAD and 3D models**; both at component and at the systems level are used to build working prototypes. We utilize National Instruments data acquisition system to collect, evaluate and analyze complex motor electrical, mechanical and electromagnetic parameters.