

**Budget (Conor Green):**

Item:	Individual Cost:	Num.:	Cost:	Source supplier and manufacturer:
220V 380V AC induction motor-	\$180 + \$100 (shipping)	2	\$560	Alibaba-Shenzhen Xintaichuang Motor Co. Ltd.
Silver	\$794/500g	1	\$794	Advanced Materials
Metal Cutting Tools	\$49.99 + \$7 (shipping)	1	\$56.99	*Estimate from harborfreight. Will vary based on LMU's equipment
Safety equipment	\$300	1	\$300	*Estimate
Micro Dyne Dynamometer	\$2000	1	\$2000	Magtrol
Arduino Uno R3 and accompanying materials (i.e. wires)	\$48.99 + \$3 (shipping)	1	\$51.99	Newegg-Ruili Inc.
Piston & accompanying materials (i.e. control)	\$70 + \$25 (shipping)	1	\$95	Grainger- Parker Amazon- Crack-n-Charge
Housing @LMU	\$1480	1	\$1480	
Total Cost:			\$5337.98	

**Timeline:**

June 25<sup>th</sup>-30<sup>th</sup> : set up motor and safety equipment and begin cross-sectioning the motors

July 1<sup>st</sup> -10<sup>th</sup> : Measure baseline performance of motors on dynamometer

July 11<sup>th</sup> – 20<sup>th</sup>: Design and build prototypes

July 14<sup>th</sup> – June 23<sup>rd</sup>: Test new prototypes and materials

June 24<sup>th</sup> – August 3<sup>rd</sup> : Assess results and write up report