

Revision #: 2
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Risks and Contingencies

Risk	Level	Status/Contingency
No air muscles can meet specs	High	
Previous Generation's design for air muscles cannot be scaled up properly	Med	enhance design or find commercially available product
Air muscles cannot provide enough displacement	Med	change placement of muscles (possibly off of arm)
Air muscles break/fail/rupture/explode during use	High	have backup / make more
Arm cannot support own weight	High	
Arm cannot support additional loads	Med	
Insufficient movement (range of motion)	Med	
Cannot achieve a degree of freedom (i.e. wrist rotation)	Low	
Model cannot render at pace with control system	Med-High	render model at lower framerate
Control system cannot achieve specified accuracy	Med	
Control system cannot interface with SolidWorks	High	Create an ad-hoc interface (via SolidWorks macros or other means)
Control system cannot interface with prototype	Med	