Online at: http://www.telerobotics.utah.edu/index.php/People/SamWright http://www.linkedin.com/pub/sam-wright/7a/127/a20

## Samuel Wright - MSME, EIT

	<ul> <li>Mechatronic design, development, and prototyping</li> </ul>					
Professional						
		C/C++ using PC DAQ, Ardiuino	-			
Assets	<ul> <li>State-Space control system experience using Kalman filter state estimation</li> </ul>					
		ence using WaterJet, CNC Mill,				
	<ul> <li>Experienced in SPC, AQL, and Six-Sigma in ISO900 and AS9100 environr</li> <li>Worked in, and contributed to, interdisciplinary teams</li> </ul>					
Relevant	1/2017-current	Sarcos Robotics	Salt Lake City, UT			
Relevant	Mechanical Enginee					
Experience	Exoskeleton kinematic suit development					
Experience	Multi-function rotary actuator design and testing					
	10/2015-1/2017	<u>Janicki Industries</u>	Layton, UT			
	Automation – Machi					
	<ul> <li>Provide automation support to production facility</li> <li>Develop new processory orthographic metrology and machine completities</li> </ul>					
	<ul> <li>Develop new processes extending metrology and machine capabilities</li> <li>Analyze existing systems for continuous process improvements</li> </ul>					
	<ul> <li>Analyze existing systems for continuous process improvements</li> <li>Provide analysis for future capital investments, including custom machine design</li> </ul>					
	<ul> <li>Major projects I've provided direct support to:</li> </ul>					
	<ul> <li>F35 Joint Str</li> </ul>					
		100 Starliner				
	o Bigelow Aero					
	Freelance Consulting           Tactical Haptics – (4/2015-9/2015)           • Mechatronic design iteration of next generation haptic interface for virtual					
	reality, gaming, medical training, robotic surgery applications, etc					
	<ul> <li>Create drawing packages for manufacturing and assembly</li> </ul>					
	<ul> <li>Utah TVC start-up – (5/2015-6/2015)</li> <li>Prototype new low-cost insufflation device for use in remote hospitals and developing nations</li> </ul>					
	9/2014-10/2015	Passive-Logic	Brighton, UT			
	Engineer - Programm		Dignony of			
	<ul> <li>Develop building and HVAC equipment simulation software in C</li> </ul>					
	<ul> <li>Develop real-time and heuristically optimized control system in C</li> </ul>					
	5/2012-9/2014	University of Utah	SLC, UT			
	Graduate Research As		0_0, 0.			
	<ul> <li>Master's thesis research</li> </ul>					
	• Design, construct and analyze a three degree-of-freedom mechatronic					
	device that rotates a spherical, permanent magnet for the control of					
	remote magnetic devices					
	Instructed undergrad	duate Solidworks lab				
	-	والمحالية والمسالم معامم الممامان				
	<ul> <li>Developed and instru</li> </ul>	ucted high school robotics sum				
	Developed and instru     5/2011-5/2012	University of Utah	mer camp courses SLC, UT			
	<ul> <li>Developed and instru- 5/2011-5/2012</li> <li>Undergraduate Research</li> </ul>	University of Utah				

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## Samuel Wright - MSME, EIT

	C:I:			
	• Silicone pour-mold for shoe-integrated sensor insoles			
	9/2009-4/2011	NAMMO Composite Solutions	Murray, UT	
		.5 Geometric Dimensioning & Toleran Document Control database	cing	
	2012 - 2014	University of Utah	SLC, UT	
Education	Master of Mechanical E		<b>.</b>	
	2011	NCEES	SLC, UT	
	Fundamentals of Engir			
	2006 - 2012	Linivorcity of Litch		
	Bachelor of Mechanica	University of Utah I Engineering (3.0 GPA)	SLC, UT	
Awards and Recognition	<ul> <li>Fully autonomous robotic entry to the 2012 Trinity College's RoboWaiter Firefighter Competition won multiple awards in, including the "Spirit of the Inventor" award for design.</li> <li>Semi-autonomous remote-controlled robotic entry to the 2011 University of Utah Roboball competition was selected to represent Dept. of Mechanical Engineering at the National Advisory Committee.</li> </ul>			
Publications	<ul> <li>S. E. Wright, A. W. Mahoney, K. Popek, and J. J. Abbott, "<i>The Spherical-actuator-magnet Manipulator: A Permanent-magnet Robotic Endeffector</i>", IEEE T-RO, 2017</li> <li>A. W. Mahoney, S. E. Wright, and J. J. Abbott, "<i>A Spherical-magnet Endeffector for Robotic Magnetic Manipulation</i>" ICRA 2015</li> <li>S. E. Wright, "<i>A Singularity-Free Mechanism For Holonomic Orientation Control of a Spherical Permanent Magnet</i>", University of Utah Master's Thesis, 2014</li> <li>A. W. Mahoney, S. E. Wright, and J. J. Abbott, "<i>Managing the Attractive Magnetic Force between an Untethered Magnetically Actuated Tool and a Rotating Permanent Magnet</i>" IEEE Int. Conf. Robotics and Automation, pp. 5346-5351, 2013</li> </ul>			
Patents	<ul> <li>A. W. Mahoney, S. E. Wright, and J. J. Abbott, "A Spherical Mechanism for Magnetic Manipulation"</li> </ul>			
Skills	<ul> <li>Programs:</li> <li>Languages:</li> <li>Platforms:</li> <li>Control Techniques:</li> </ul>	Solidworks, ANSYS, Adobe, Offic C/C++ , Python, Matlab, Qt Linux,Windows, Mac, Arduino, ds Classical, State-Space, Kalman F	SPIC	