Daniel Wahl

INFORMATION

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5251 N Rockwell St Unit 3 Chicago, IL 60625

Experie	ENCE		
PRESENT 2018/08	ROBOTICS CONSULTANT, TRAILER CONNECT Outrider	Golden, CO	
	 Developed control software for <i>Outrider's</i> Trailer Connect team, response tonomously connecting yard trucks and trailers. 	onsible for au-	
	 Used ROS and MoveIt to interface with Motoman industrial robot arm, inte DAR and Intel RealSense camera for perception and control. 	grated Sick LI-	
	- Wrote finite state machine library, currently in use throughout Outrider syste	m.	
	- Supported early prototyping efforts and on-site systems integration with initi	al customers.	
Present 2017/11	ENGINEERING CONSULTANT, SOLE PROPRIETOR Consequential Technologies	Chicago, IL	
	 Wrote embedded software for <i>HDT's</i> Hunter WOLF logistics carrier, running 3CM controller. 	g on STW ESX-	
	 Investigated novel datasets and developed trading strategies for Landscape C ment, using Pandas and Scikit-learn. 	apital Manage-	
	 Designed solar meter and mesh network electronics for Sigora International's in Haiti, using Altium. 	solar microgrid	
Present 2017/01	TECHNICAL ADVISOR, FOUNDING MEMBER JustDesign Cooperative	Chicago, IL	
	 Helped found a worker-owned consulting firm, providing professional desi community groups and environmental justice projects. 	gn services for	
	 Primary developer of solar meter electronics and software for <i>Iluméxico</i>, cur in 20K+ homes in rural Mexico. 	rently deployed	
	 Created the Air Quality Chicago website for <i>Environmental Law and Policy Center</i>, used for tracking citizen science PM2.5 monitoring. 		
	 Provided technical support for <i>Pilsen Environmental Rights and Reform Or</i> search and advocacy into Chicago's lead water crisis. 	ganization's re-	
2018/12 2010/01	SENIOR CONTROLS ENGINEER, ROBOTICS HDT Engineering Services	Evanston, IL	
	 Primary developer of embedded control software for upper arm and wrist actuators in the Modular Prosthetic Limb, part of DARPA's Revolutionizing Prosthetics program. 		
	 Created ROS interface for HDT's robotic arms and actuators. Generated URI works models, wrote CANbus communications interface, and used MoveIt for ation and semi-autonomous control. 	DFs from Solid- or arm teleoper-	
	 Lead embedded software engineer for tactor, a small haptic feedback devide DARPA's RE-NET program, currently undergoing initial patient trials. 	ce designed for	
	 Designed tactor control board, with CANbus, force sensing, and bluetooth wi also for DARPA program. 	reless interface,	
	 Wrote custom real-time embedded code for Protector vehicle and other HDT tions in Linux and QNX, on both ARM and x86 processors. 	robotic applica-	
2009/12 2007/06	Control Systems Engineer Delphi Automotive, Fuel Cells	Rochester, NY	
	- Primary developer of fuel cell system control software in Matlab Simulink w	ith RTW.	
	- Created system plant models for control tuning and design simulation.		
	 Supported test engineering and generated custom LabView test applications design of control and power electronics. 	, assisted in the	

EDUCATION

2007/04	MASTER OF SCIENCE IN MECHANICAL ENGINEERING	Ann Arbor, MI	
2006/08	University of Michigan	GPA: 3.81/4	
2006/05	BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING	Buffalo, NY	
2003/08	University of Buffalo	GPA: 3.42/4	