# (850)450-2690 Jerryll.Noorden@gmail.com

# Jerryll Noorden

## **Professional Summary & Skills**

- 4+ years team lead and project management experience in fast phased multi-disciplined environment
- 9+ years Mechanical Engineering, Robotics engineer/scientist experience in R&D environment.
- Project Management Skills: Board-Level Reporting, Technical Writing, Analytical Problem Solving, Scheduling, Planning & Work, Assignment, Lecturing, Presenting Technical Papers.
- Mechanical &Technical Skills: SolidWorks, FEA, Mechanical Design, Structural Analysis, Materials
- Languages: English, Spanish, Dutch, Suriname, Papiamento

# **Professional Accomplishments**

# ASML Senior Mechanical Engineer (NX), ASML, Wilton CT, Aug. 2015 – 2016

- Developed a system to reduce cooling fluid leak risk by 50%.
- Developed machinery with 13% more accuracy in the nm scale then the current leading EUV machines making this the world's most advanced lithography machine.

# Lead Mechanical Engineer, Istituto Italiano di Tecnologia (IIT), Genova Italy, May, 2014 – Aug. 2015

- Managed a team of mechanical, design, control and electrical engineers, to design and build a disaster response humanoid, under budget and under deadline.
- Outsourced work and established relationships with crucial clients for a total savings of over \$40,000 dollars in machined parts over a period of 9 months.
- Managed projects, identified bottle necks, devised and implemented eliminating delays that ultimately resulted in on-time completion of an initially 15 month delayed project resulting in continued funding for future projects.



#### Lead Mechanical Engineer, NASA, Houston TX, Dec. 2012 - Nov 2013

- Procured over \$1,000,000 dollars in funding as a direct result of performance of successful projects
- Managed a team of multi-disciplined engineers as the principal mechanical lead to successfully bring complex robotic systems from concept to final product
- Served as the principal Mechanical Lead on 2 concurring projects with strict requirements and deadlines
  to design build and test crucial life support equipment, that is 80 % more efficient and over 90 % lighter
  than current systems on the International Space Station.
- Developed 2 successful robotic systems from concept to final product on time and within budget.

# ihmc Project & Mechanical Lead Engineer, IHMC, Pensacola FL, Dec. 2007 – Nov 2013

- Managed and lead the entire IHMC line of exoskeleton projects.
- Secured over \$2,000,000 dollars of government funding based on results driven projects.
- Managed lead and organized a team of crossed disciplined engineers.
- Interviewed, hired, trained and inspired new engineers to become highly capable team members of state of the art robotics systems.
- Organized events and sponsored youth events to inspire the young community to get involved with technology and science.
- Developed advanced robotic systems that enabled 2 paraplegic people to walk again after years of wheeled chair confinement.

# **Project Accomplishments**



#### IIT - Istituto Italiano di Tecnologia, Genova, Italy DARPA Robotics Challenge (DRC).

- WALKMAN A Disaster Response Robot to operate in a fully dexterous human designed environment performing crucial high risk task including saving human lives. For more info, please click here.
  - WALKMAN Video. ("[Ctrl]+ Click" to watch videos)



## NASA - National Aeronautics and Space Administration -Houston TX

- X1: A Ten Degree-of-Freedom (DOF) Robotic Exoskeleton Countermeasures studies, experiments and evaluation at the Biomedical Research and Environmental Sciences Division (SK) of NASA's Human Health and Performance Directorate.
  - Video 1: X1 Concept Video.
  - Video 2: X1 Overview Video.
- Paralleled Dual Series Elastic Actuator Dynamometry Ankle A powered ankle joints for dynamometry measurements and exercise devise extension for the X1 Exoskeleton

# Tihmc IHMC - Institute for Human and Machine Cognition, Pensacola FL

- Mina A Six Degree-of-Freedom (DOF) Robotic Exoskeleton: A robotic suit for mobility assist, rehabilitation, and strength augmentation.
  - Video Mina1: Male participant

Exo Walking Without User

Video Mina 2: Female participant

Record & Playback Gait

- Dancing in Exo (DOF Demo)
- **Fast Runner** A bipedal fast running robot that is energy efficient and inherently stable.

#### Education.

## Florida Institute of Technology, Melbourne FL, USA.

•	M.S., B.S. Mechanical Engineering	(2009)	B.S. Applied Mathematics	(2002)
• 1	M.S. Engineering Management	(2004)	B.S. Aerospace Engineering	(1999)

(2003)B.S. Mechanical Engineering

#### **Patents**

Jerryll H. Noorden, Peter D. Neuhaus, Nic Payton, Nic Radford, Travis Craig. " BIPEDAL EXOSKELETON AND METHODS OF Use". U.S. Patent 61/709,489, filed October 4, 2012

### **Publications**

- Peter D. Neuhaus, Jerryll H. Noorden, Travis Craig, Tecolote Torres, Justin Kirchbaum, Jerry E. Pratt,. Evaluation of a Robotic Orthosis for Paraplegics. ICORR 2011.
- Peter D. Neuhaus, Jerryll H. Noorden, Hian Kai Kwa, Mathew Missel, Travis Craig, Jerry E. Pratt. Development of a Rotary Series Elastic Actuator for a Robotic Exoskeleton Application. IEEE ICRA 2009.
- Peter D. Neuhaus, Jerryll H. Noorden, Hian Kai Kwa, Mathew Missel, Travis Craig, Jerry E. Pratt. Development of the IHMC Mobility Assist Exoskeleton. IEEE ICRA 2009.