DAVIN LANDRY

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EDUCATION

Northwestern UNIVERSITY   Evanston, IL
Master of Science in Robotics   December 2022
PURDUE UNIVERSITY   West Lafayette, IN
Bachelor of Science in Mechanical Engineering   May 2019
Certificate in Entrepreneurship and Innovation   May 2019

PROFESSIONAL EXPERIENCE

The INSTITUTE For HUMAN MACHINE COGNITION (IHMC)   Pensacola, FL
Nadia Humanoid Robot Project   2020-2021
- Developing a high speed and high range of motion humanoid robot funded by the Office of Naval Research
- Conducted literature review on humanoid robotic feet for development of robotic foot for Nadia
- Designed and prototyped several robotic feet, incorporating bio-inspired mechanical design such as toes
- Defined requirements; commissioned the design; and tested 6-axis Force/Torque sensor for robot foot
- Learned specialized prototyping and manufacturing skills through hands on experience such as exploring different methods for laying and curing carbon fiber structures in leg components of the robot
- Honed rapid prototyping skills through 3d print conscious design and many iterations of components

McDERMOTT INTERNATIONAL   Houston, TX
Instruments and Controls Intern   2018
- Developed logic gates for plant-wide safety shutdown protocols for TOTAL's $1.7 billion ethylene cracker
- Iterated CAD blueprint designs for piping and instrumentation until pump systems met client standards

CHICAGO BRIDGE & IRON COMPANY   The Woodlands, TX
Innovation Intern   2017
- Produced case briefing materials on the potential market and scalability of various blockchain pilot projects
- Created and maintained the Innovation Business Unit iShare collaboration website
- Implemented code debugging and troubleshooting exercises for CBI&I's Ignite digital innovation platform

ENGINEERING DESIGN EXPERIENCE

BALANCIAGA: Autonomous Ball Balancing Robot   2021
- Utilized computer vision techniques and control theory to conduct a Franka Emika Panda robot arm to balance and steer a ball on a whiteboard
- Designed a double PD controller to control the position of the ball on the board and a maze solving algorithm to guide the ball through a maze drawn on the board

ROBOMASTERS Competition   2018
- Devised, combat tested, and fabricated multiple tactical operation robots with autonomous capabilities

FLEXIWARE   2016
- Prototyped adaptive eating utensils that can be shaped to form custom grips for persons with hand disabilities such as cerebral palsy

RELEVANT SKILLS

Design Software: CATIA V5, AutoCAD, SolidWorks, Creo, OnShape
Presentation Software: Microsoft Office Suite, Adobe Premiere Pro
Coding Languages: MATLAB, NI Labview, C, JavaScript, Python, HTML&CSS, jQuery

ADDITIONAL INFORMATION

Certified in: Onshape Top-Down Design Training Course; CPR; First Aid