

# DAVIN LANDRY

(832) 712-9719 | davin.landry97@gmail.com | [dlandry97.github.io/Davinci\\_Portfolio/](https://dlandry97.github.io/Davinci_Portfolio/)

## EDUCATION

### NORTHWESTERN UNIVERSITY

*Master of Science in Robotics*

Evanston, IL

December 2022

### PURDUE UNIVERSITY

*Bachelor of Science in Mechanical Engineering*

West Lafayette, IN

*Certificate in Entrepreneurship and Innovation*

May 2019

May 2019

## PROFESSIONAL EXPERIENCE

### The INSTITUTE For HUMAN MACHINE COGNITION (IHMC)

Pensacola, FL

*Nadia Humanoid Robot Project*

Feb 2020 - Aug 2021

- Assisted in the development of a high speed and high range of motion hydraulic humanoid robot funded by the Office of Naval Research
- Conducted literature review on humanoid robotic feet to design and prototype 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
- Honed specialized prototyping and manufacturing skills through hands on experience such as exploring different methods for laying and curing carbon fiber structures for leg components of the robot

### McDERMOTT INTERNATIONAL

Houston, TX

*Instruments and Controls Intern*

July - Aug 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*

July - Aug 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

## ENGINEERING DESIGN EXPERIENCE

### Shear Haptics: Virtual Reality haptic controller

2022

- Designed and prototyped a VR haptic controller that uses shear movement in the grip to simulate weighted objects in motion and in impact
- Developed a virtual demo environment in Unity to test and demonstrate the haptic feedback capabilities

### 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
- Implemented maze solving algorithm and PD controllers to control the position of the ball on the board

### FLEXIWARE

2016

- Prototyped adaptive eating utensils that can be shaped to form custom grips for persons with hand disabilities such as cerebral palsy
- Visited with target customers for better user experience focused design

## RELEVANT SKILLS

*Design Software:* CATIA V5, AutoCAD, SolidWorks, Creo, OnShape, Unity, Git  
*Coding Languages:* MATLAB, NI Labview, C, C++, JavaScript, Python, HTML&CSS, jQuery  
*Presentation Software:* Microsoft Office Suite, Adobe Premiere Pro  
*Certified in:* Onshape Top-Down Design Training Course; CPR; First Aid  
*Extracurricular:* D5 Competitive Paintball, World Travel, Snowboarding