



LIAM NOLAN

MECHATRONICS ENGINEER

CONTACT

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Address

Dr. Stumpf Straße 102
6020 Innsbruck, Austria

SKILLS

- SolidWorks
- Python
- MATLAB
- Simulink
- Autodesk Inventor
- Mastercam
- 3D Printing
- DFMEA
- CNC Manufacturing
- C++
- Linux
- ROS
- HTML CSS
- ABB RobotStudio

LANGUAGES

English - Native

German - Beginner

ABOUT ME

I am a Mechanical/Mechatronics Engineer with over four years of professional experience in Medical Robotics, Aerospace, and Manufacturing. I am currently pursuing a Master's degree in Mechatronics at MCI. I am passionate about Mechanical Design, Robotics, and Software.

Portfolio Website: www.liamjosephnolan.com

Date of birth: May 14, 1997

Place of birth: Seattle, United States of America

WORK EXPERIENCE

Mechanical Engineer

August 2019 - March 2023

Ethicon Inc. (J&J Medical Devices) - Santa Clara, CA

- Designed, tested, and implemented numerous robotic subsystems
- Project Lead of Mechanical Immobilization solution for surgeon console
- Team Lead of capital equipment packaging project
- Designed and coordinated manufacturing of PCB and optical test fixtures
- Coordinated repair efforts for surgical robotic systems in Clinical setting
- Supported procedure development efforts in surgical labs

Mechanical Engineering Intern

June 2018 - September 2018

Auris Health Inc. - Redwood City, CA

- Designed and manufactured custom electromechanical actuator to immobilize surgical system
- Assembled, tested, and characterized performance of robotic arms
- Tuned, characterized, and tested custom electromechanical actuator
- Analyzed assembly critical tolerance stackups in custom actuator assemblies
- Created, reviewed, and delivered part drawings for manufacture

Mechanical Engineering Intern

June 2017 - September 2017

Orbital ATK - Goleta, California

- Prototyped assembly methods for various satellite deployables
- Assembled and tested engineering development units
- Analyzed flight hardware for defects and insured assemblies were within

tolerance

- Manufactured and assembled stiffness and thermal test fixtures

Mechanical Engineering Intern

June 2016 - September 2016

Breedt Production Tooling and Design - Kent, Washington

- Design, manufactured, and tested large scale industrial tooling
- Responsible for mechanical and electrical design of robotic hydroponic foam cutter
- Designed and manufactured rubber compression mold stripper

Mechanical Engineering Intern

June 2015 - September 2015

Breedt Production Tooling and Design - Kent, Washington

- Designed and manufactured parts for external customers
- Operated and maintained both CNC manufacturing equipment and manual machining equipment

| EDUCATION

Master's degree

2023 - present

MCI, Mechatronics - Innsbruck, Austria

Bachelor's Degree

2015 - 2019

California Polytechnic State University, Aerospace Engineering - San Luis Obispo

| FIRST ROBOTICS COMPETITION

- Student of FRC team 2046 (2012-2015)
Club President
- Mentor of FRC team 973 (2017 & 2018)
2017 World Champions

| BATTLEBOTS

- Engineer for Alexis (3lb Combat Robot)
- Engineer for Zenith (250lb Combat Robot)

| ROCK CLIMBING

I am a passionate rock climber and have traveled all over the world for outdoor Bouldering and Sport Climbing