

# Seanan Vilfroy

Engineering Student



## About me

Engineering student looking for a final year internship

## Personal

✉ vilseanan@gmail.com

☎ +33 7 50 23 91 60

📍 1 Avenue Pierre Masse  
75014 Paris, France

📅 18/11/1999

## Skills

**Programming**  
(Python, PLC)

**CAD**  
(Catia, 3DExperience)

**Finite Elements**  
(Abaqus)

## Languages

**French** (Native)

**English** (C2)

**Chinese** (B1)

## Interests

Britton Folk Wrestling

Pro Wrestling

Weightlifting

## EDUCATION

2021–2024 **Arts et Métiers ParisTech**  
BS/MS IN MECHANICAL ENGINEERING · Paris, France 📍  
**Major** : Biomechanics, Mechanical Design, Industrial Processes.  
**Project Based Courses** : Spinal Movements Recognition Software, F1 Suspension System, Airplane Brakes



2019–2021 **Lycée Alain René Lesage**  
FIRST TWO YEARS OF BS · Vannes, France 📍  
Preparation for french engineering schools' entrance exams  
**Courses** : System Design, Automation, Physics, Mathematics  
**Projects** : Stair Climbing Wheelchair



## WORK EXPERIENCE

2023 **Institut de Biomécanique Humaine Georges Charpak**  
INTERNSHIP IN BIOMECHANICS RESEARCH · Paris, France 📍  
Research in Leg Prostheses Fitting  
Studied the accuracy of computer generated 3D models of transtibial residual limbs  
Wrote a code generating residual limbs' bone structure based on surface scans



2022 **NTN Transmissions Europe**  
INTERNSHIP IN TOOLS MANUFACTURING · Crézancy, France 📍  
Automotive Forging Company  
Created a tool able to predict machining times  
Automated the update of thousands of processes with minimal user input on SAP



2018 **Institut d'Astrophysique de Paris**  
INTERNSHIP EXOPLANETARY RESEARCH · Paris, France 📍  
Astrophysics Research Laboratory  
Designed a mock-up illustrating exoplanet detection



## SELECTED PROJECT

### Stair Climbing Wheelchair

- Designed and built a wheelchair capable of climbing stairs using modular tracks.
- Automated it's stair climbing feature