Nicolas Brissonneau

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Experience

Designing a solution for robots to paint (GRA)

2020

- ExxonMobil Austin
- Designing and 3d printing robotics interfaces
- Implementing control laws in simulation and hardware

Teaching Assistant

2019-2020

University of Texas - Austin

Teaching and supporting ~90 undergraduate students in dynamics and control classes

Designing control laws for exoskeleton (GRA)

2017-2019

Apptronik - Austin

- Safe and robust force amplification
- Modeling and testing of human-exoskeleton interactions

RoboCup@Home competition with HSR (Human Support Robot)

2017

Nagoya - Japan

- Vision, mapping, manipulation
- Team effort lead us to 3rd place

Internship and projects:

2015-201

- o Development of a Smart Pen
- o Sizing of a Series Elastic Actuator
- o R&D Engineer Assistant, AGV design

Academia

University of Texas, Austin

2017-2019

Robotics Systems and Control - Master's degree

- Robust control law design
- Linear systems analysis, physical simulation, modeling, cognitive models
- Research on human-inspired impedance controllers
- Machine learning methods: QL, PCA, ICA, GP, Backpropagation

UPMC - SORBONNE UNIVERSITES (Paris VI)

2016-2017

- Advanced Systems and Robotics Master's degree
- Mobile Robotics, Multi-body Systems Mechanics, Advanced Control Law
- Augmented Reality, Vision, Simulation, Haptic interfaces

ARTS ET METIERS. Paris Institute of Technology

2011-2016

- Engineering Diploma Expertise in Mechatronics
- Mechatronics: Dynamics, State Estimation, Control Law
- Mathematics: Advanced Algebra, Function Analysis and Probabilities
- Physics: Electronics, Thermodynamics, Mechanics
- Science of Engineering: Mechanical and Electrical systems
- Production, Industrial processes

Additional skills

Machine learning online Coursera class - Stanford University

Software: ROS, C++, Python, Gazebo, Dart, Labview, Matlab, Catia, Solidworks