

# Adélaïde GRIMAUD

## EDUCATION

- Institut Image (ENSAM Research laboratory), Châlon-sur-Saône, France** 2016 - 2017  
Master of Science in digital engineering, focused in management of 3D interactive technologies, with honors  
Majors: virtual reality, 3D design, numerical modelling, programming
- Ecole Nationale Supérieure des Arts et Métiers (Engineering School), Metz, France** 2014 - 2017  
Master of Engineering in mechanical and industrial engineering  
Majors: mechanics, materials and manufacturing processes
- Ecole Catholique des Arts et Métiers (Engineering School), Lyon, France** 2012 - 2014  
A two-year undergraduate program in mathematics, physics, mechanics and design

## EXPERIENCE

- Brigham & Women's Hospital, Harvard Medical School, Research trainee** March 2017 - present  
SPINE virtual laboratory: exploration and annotation of medical data
  - Implemented a virtual reality application to annotate and segment SPINE MRIs through crowdsourcing
  - Developed a virtual reality tool to help surgeons perform Laparoscopic Surgery
  - Connected external applications to SPINE to expand the database
  - Developed a more efficient version of SPINE with special attention to the sustainability of the platform
- Institut Image and Clinea, Senior Project, Research collaboration** Nov 2016 – Jan 2017  
Treatment of driving phobia by virtual reality
  - Studied the impact of the screen size on patient implication
- Comepa Industries, Thermostat manufacturing, Assistant executive engineer** June – Sept 2016
  - Developed Visual Basic production tools to automatically gather data needed by workers and update a database
  - Researched, developed and implemented mechanical control tools which reduced scrap rates by 25% Upgraded molds for a specific type of thermostat
- Qualiconsult, Regulatory consulting firm, Technical engineer** Aug 2015
  - Managed all aspects of a client engagement with a retail chain consisting of over 50 public places
  - Reviewed and analyzed building structures to ensure alignment with new regulatory policies for fire safety and accessibility
  - Planned the construction work and budget necessary to achieve compliance within 3 to 6 years
- My Green Shop, Management of vending machines, Logistical assistant** Feb 2015
  - Coded a complete Visual Basic logistic application which reduced 30% of the company wasted products and 100% of critical stocks
- Ecole Catholique des Arts et Métiers, Independent research project** Sep 2013 – July 2014  
Contribution of gas combined cycle power station
  - Calculated the increase of energy efficiency gained compared to traditional power station
  - Designed, prototyped and tested a small gas-fired combined cycle power station
- Société Roannaise de Mécanique (SOROME), Mechanical factory, Production internship** June 2013
  - Managed and implemented proper control tools for each worker post, saving half an hour of production per day

## SKILLS

**Languages:** French (native), English (proficient ~ IELTS: 7.0), Spanish (working knowledge)  
**Programming:** C#, React.js, HTML, Visual C++, Node.js, Visual Basic  
**Software skills:** Unity and Autocad 3DS Max (3D Design), Pack Office, Catia V5 and Solidworks (CAD), Abacus (FEA)

## LEADERSHIP

President of the **International Relationship Team** (2015-2016)  
Led the entertainment activities for a 130.000€ budget sporting event (42<sup>nd</sup> edition of GUAJ, France) with over 1,000 students  
**Sports:** Captain of the women's basketball team of the Campus of Arts et Métiers (2015), Running, Snowboarding  
**Travels:** Australia, Germany, England, Croatia, Thailand, Malaysia, Singapore, Namibia, Senegal, Madagascar, Canada