Mickael Pigeot
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Education

Florida Atlantic University (FAU)

BA, College of engineering & Ocean Engineering & Naval Architecture with a current GPA of 3.75. Expected graduation date: Spring 2019
Member of the **Innovation Leadership Honors Program in FAU** (2016)
Member of the **Engineering Honor Society (Tau Beta Pi)** (2016)
Life member of the **National Society of Leadership and Success** in FAU (2015)

- Society Presidential Member and Engaged Leader Award

French High School diploma, St Martin de France [specialty in Physics] (2013)

Skills

General boat maintenance, Bilingual French, Word, Excel, "Quick learner"

Software Proficiency

Matlab, C++, Solidworks, Arduino

Experience

Party Planning Assistant, Boca Entertainment (2014)

- Assisted in overall set up for 200-person event

Firefighter certification, Courdimanche, France (2010)

- CPR & PADI certification *[known as psc1 in France]*

Boat crew, Port Moro Shipyard, France (2009)

- general sailboat maintenance, Pen Duick
- engine maintenance
- 200-liter fuel tank replacement and connection

Boat Crew, Mediterraneab Sea, Riva Tropicana 43S, Bavaria 37 HT (2008-2013)

- General Boat Maintenance [cleaning/engine maintenance/hull maintenance] experience with 42' and up
- Driving and docking, twin in-board engines
- Safety management
- Preparing navigation on GPS
- Weather forecasting

Retail, Fragrance Specialist, Chanel (2016-2017)

- Customer service and maintaining customer loyalty

Building an Autonomous Surface Vehicle (2017)

- Capable to avoid any obstacles using an ultrasonic sensor
- Arduino UNO based project
- Design structure on Solidworks
- Programing, mechanical and electrical design
- Team work and presentation
- Team Leader
- Competition winner

Analyzing boat structure and designing safety equipment (2018)

- Stability of the boat
    - Metacenter
    - Center of gravity
    - Center of buoyancy

- Determining true maximum weight capacity
- Designing bilge pump system for a Bavaria Virtess 420
- Analyzing speed of a boat and shape its hull

OTEC project

- Using thermodynamic and heat transfer principles to determine the efficiency of the Hawaiian OTEC system
  - Focus on the Closed (Anderson) OTEC system
  - Study of the four main stages underwent by the working fluid (ammonia) to complete an ideal Rankine cycle
  - Analysis of Ammonia's properties
  - Efficiency
    - Carnot efficiency for ideal efficiency (7.30% efficiency)
    - Realistic efficiency
      - Studying OTEC plant schematic (Power cycle, Water systems, Heat exchangers)
      - Assuming power cycle can produce a net power of 10 MW
      - Assuming 75% efficiency for the pumps and 80% efficiency for the turbine
      - 3.33% efficiency
- Improving the structure for better efficiency
  - Reducing pump work
    - Install an ocean wave energy system that converts the wave energy (Kinetic Energy) into usable electrical energy.
    - Hybrid system to power the pumps
  - Increase rate of heat transfer within the heat exchangers
    - Attaching fins perpendicular to the tubes carrying the working fluid.
    - Increase diameter of the heat exchangers' tubes

Interests Boating, Fishing, Competitive Swimming, Scuba Diving, Golf, Wakeboarding, Weightlifting, Tennis, Rugby, Flyboarding