

Michael Piessens

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EDUCATION

University of New Hampshire; Durham, NH - September 2018 - May 2021

Bachelor of Science: Mechanical Engineer

- Summa cum laude (3.88 GPA)

AMPHENOL EXPERIENCE

Amphenol Times Fiber Communications; Morrisville, NC - August 2023 - May 2024

Product Engineer

- Designed cable layouts, purchased and sourced materials, created bill of materials for production
- Led manufacturing with running cable prototypes, modified designs on the fly to optimize manufacturing process
- Tested cables electrically and mechanically to ensure compliance with industry standards
- Created official reports for new products in accordance with Underwriters Laboratories (UL) standards

Amphenol Antenna Solutions; Amboise, Centre-Val de Loire, FR - September 2022 - July 2023

Research and Development Engineer

- Worked with Charles Industry to source, design, and manufacture American products in Europe
- Collaborated on modular antenna prototypes to lower carbon footprint, improve recyclability and repairability
- Gained B2 proficiency in French
- Mapped electrical paths of antennas and calculated inefficiencies to reduce power consumption

Amphenol Antenna Solutions; Conover, NC - June 2021 - August 2022

Research and Development Engineer

- Optimized procedures and created templates to reduce antenna design time by approximately 60%
- Patented compact phase shifter design with three other engineers (patent US20230178866A1)
- Led development of 20 antennas, performed testing, and interpreted results to better understand design constraints
- Designed one injection molded part and many 3D printed parts using FEA, estimated to save \$250,000 annually

COLLEGE EXPERIENCE

Brayton Energy / University of New Hampshire; Durham, NH - August 2020 - May 2021

Team Leader: Handicap-Accessible Handcycle

- Managed all financial, communicative, and promotional aspects
- Communicated with caregivers, companies, and people with disabilities to gauge market needs
- Fabricated seven adjustable aluminum and steel parts, all designed using FEA to ensure a factor of safety of three
- Constructed a power assisted handcycle with a 30-mile range and a top speed of 25-miles-per-hour

University of Melbourne; Parkville, Victoria, AU - December 2019 - January 2020

Doctoral Intern: Salt Stratification Tank

- Proposed five possible tank designs capable of emulating salt stratification profiles found below melting ice caps
- Managed a budget for the open-ended project and purchased all necessary materials
- Independently constructed an experimental tank and installed pumps to produce a linear density profile

COMPETENCIES

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|---------------|--------------|--------------|--------------|
| ● Adaptable | ● Empathetic | ● Humble | ● Meticulous |
| ● Charismatic | ● Honest | ● Innovative | ● Resilient |

OTHER EXPERIENCE

University of New Hampshire; Dover, NH - January 2019 - May 2021

Math Tutor

- Tutored math classes ranging from precalculus to calculus 3
- Mastered effective listening and speaking skills, read nonverbal cues, improved patience

New Hampshire State Parks; Hampton, NH - May 2017 - August 2019

Ocean Rescue

- Rescued 7 patrons, enforced laws, de-escalated unruly individuals, took charge of unusual situations
- Taught myself to swim, learned CPR and first aid, trained and performed in dangerous conditions daily