**MECHANICAL ENGINEERING ENTRY-LEVEL RESUME**

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**Personal Statement**

A 4.0 GPA Mechanical Engineering graduate from the University of Maryland, Dean’s List student. The founder of the Female Engineers Society at UoM with 37 members. Under my lead, FES constructed 250+ Arduino-based Ventilators for Covid-19 to supply local hospitals and clinics. Awarded the Robotics Institute Commendation for the best graduation project at UoM—Oxygen Concentrator Generator for Covid-19. Vice-President of American Society of Mechanical Engineers (ASME) organizing monthly speaker series. Seeking to apply my initiative to an employer with enough resources to allow me to develop as fast as possible.

**Education**

BS in Mechanical Engineering, 20XX-20XX

GPA: 4.0

University of Maryland, College Park, Maryland

* Dean’s List every semester
* Vice-President of American Society of Mechanical Engineers (ASME)
* Exceptional Scholar Internship 2018 & 2019
* Female Engineers Society Founder (37 members)

**Work Experience**

**Mechanical Engineer Intern, PRC Fabrication, Charlotte, January 20XX**

* Collaborated with a team of 6 mechanical engineers with 15+ years of experience.
* Participated in 2 commercial manufacturing projects with a total budget of $7M.
* Conceptualized, designed and tested 13+ models of parts using AutoCAD, automated CNC, and 3D printers.

**Projects**

**Oxygen Concentrator Generator For Covid-19, June 20XX (Graduation Project)**

* Atmega 328p Microcontroller powered oxygen generator that captures oxygen from atmospheric air by using pneumatic pressure with zeolite vessels.
* Constant monitoring for leakage as high oxygen concentration may lead to combustion. Buzzer and auto shut off implemented on leakage.

**Ventilator for Covid-19 (254 units to date), March 20XX-present**

* Arduino Uno powered ventilator that can deliver 10-30 breaths per minute, adjustable in increments of 2, with adjustable air volume.
* Silicon ventilator bag with DC motor side push mechanisms that compress the bag. Implemented blood oxygen and pressure sensors to monitor patient vitals.
* I designed, optimized and scaled the assembly process which resulted in the Female Engineers Society members being able to assemble and test one in less than 1 hour.

**Skills**

* Arduino Uno
* Raspberry Pi
* AutoCAD
* Solidworks
* Autodesk Inventor

**Languages**

* German (advanced)
* Dutch (fluent)
* Portuguese (basic)