Colin MJ. Jalbert

45 Olde Colony Drive, Shrewsbury MA 01545
Mobile (774)-307-3417
Colin.jalbert1@gmail.com

EXPERIENCE

Made Robotics LLC   **San Jose, CA**
Product Design Engineer   May 2019 - Present
- Collaborated in the co-founding of an LLC, developing walking robotic systems for the transportation, mobility augmentation and industrial applications sector, successfully generating patents, working prototypes and grant applications for the company.
- Responsibilities included but not limited to mechanical system and assembly design, component determination, geometric dimensioning and tolerancing, metals/plastic materials/force analysis and electro-mechanical prototyping.

United States Army   **USA. Kuwait. Iraq**
Veteran, Engineer   Fall 2012 – Fall 2018
- Supported a multi-disciplinary team of engineers working in various locations to accomplish mechanical, hydraulic, and electrical engineering missions for the US Army Corps of Engineers.
- Developed familiarity with a wide range of electro-mechanical tools and skills, including using heavy machinery, wire braiding, crimping, soldering, connector attachment and troubleshooting.

YourStory International   **Pont Morel, Haiti**
Mechanical Engineering Associate   December 2013 – 2016
- Co-founded a non-profit organization to develop a holistic approach to reducing trash in Haiti by designing a machine system which converted throwaway polymers into lightweight building materials.
- Utilized 3D simulation programs (Solidworks + Fusion 360) to simulate load and conditional scenarios to aid in the rapid development of demolished areas leading to innovations within their structural architecture.

EDUCATION

University of Massachusetts, Amherst   **Amherst, Massachusetts**
Bachelors; Mechanical Engineering   Graduation Date: Spring 2019

PROJECT EXPERIENCE

Robot Quadruped
- Designed and built quadruped and hexapod robots to aid in home maintenance and improve quality of life for physically or mentally impaired individuals.
- Designed and assembled PCB, fabricated material, designed actuated-assembly systems, and prototyped various 3D printing techniques to test reliability and surface conditions.

Wireless Robotics Controller
- Designed, fabricated and programmed a wireless robot controller equipped with numerous sensors and control modules including but not limited to encoders, 9-Axis IMUs, potentiometers, switches, buttons, capacitors and resistors.

KNOWLEDGE, SKILLS & ACKNOWLEDGEMENTS

Languages: Fluent in English and French, knowledge of Spanish.
Personal Patents: Single Passenger Vehicle For Adaptive Transportation.
Technical Skills: 10+ years 3D Modeling; SolidWorks, AutoDesk Fusion 360, SpaceClaim and MATLAB.
Programming Languages: C++, Arduino, HTML, CSS, Javascript.