Alejandro Vegas

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Experience

Design Engineer, R & D, Owner ***December 2017 - Present***

VSR Products LLC Glendale, Wisconsin/Minneapolis, Minnesota

- **Independently developed VSR Products,** which 3D prints parts for model cars and drones, and sells CAD files to manufacturers
- Built a website/eCommerce, conduct dealer negotiations, **design and prototype parts using CAD** and 3D Printing
- Own and operate 7 high-end 3D printers both FDM and SLA for production, approximately **9000 units sold in 18 countries**
- Negotiate and **communicate with customers and wholesalers**

Product Development Engineer ***January 2017 - Present***

Motiv RC Waukesha, Wisconsin

- **Designed and tested parts** for model vehicles, for **production in CNC machining and 3D Printing**
- Represented Motiv RC at professional events, customer outreach
- Created ad campaigns on Facebook, Instagram, and Google for products

Retail, Repairs, Customer Service **February 2014 - August 2018**

Trackside Hobbies Brookfield, Wisconsin

- Worked in **customer relationship management**, operated register

Projects

Wireless Charger for High Voltage Applications ***February-August 2019***

VSR Products, LLC

- Invented, prototyped and tested a **wireless charging system** for applications that require more than 5 volts (i.e cordless drills, electric leaf blowers, remote controls for drones, etc.)
- Implemented **3D printing and electrical circuitry** to create a clean and finished product that was then marketed to RC drone and car users, by Facebook and Google advertisements. This product was sold under the VSR Products brand.

Automated Drink Robot w/Custom Peristaltic Pump ***September 2019- December 2019***

UMN Mechanical Engineering Course

- Designed in Creo and Solidworks a complete **85 part assembly** for a drink dispensing robot
- Created a custom peristaltic pump, 3D printed and laser-cut components
- Programed an Arduino UNO to work with an RFID reader, stepper motor, LCD screen, and RGB LED strip
- Given Judge's favorite award at University-wide show by 3 out of 5 judges.

Education

Bachelor of Mechanical Engineering ***Expected May 2022***

College of Science and Engineering, University of Minnesota-Twin Cities | GPA 3.3

CSE Global Seminar in Spain ***January 2019***

German American Partnership Program (GAPP) Exchange ***June-September 2016***

Relevant Coursework: Statics and Dynamics, Material Science, Body Deformation Mechanics, Thermodynamics

Skills

Software: Solidworks, Creo 5.0, C++, MATLAB, MasterCAM, Fusion360, VCarve Pro, Microsoft Office,

Foreign Languages: Fluent Spanish, intermediate German

Technical Skills: Arduino, Soldering,Circuit building, reverse engineering, 3D printing, CNC 3-axis

Leadership

Business Owner: VSR Products LLC (parts for drones and high-performance RC vehicles) ***December 2017- Present***

Managing 1-4 employees, and negotiating with distributors and sponsored drivers

Captain/Manager: University of Minnesota Intramural Soccer Team ***2018-Present***

Organize and lead intramural soccer team of 23 students

Project Leader: 3D Modeling class project to send a balloon into the stratosphere ***September 2017- May 2018***

Voted Project Leader for a senior design class, managed and organized a class of 34