

CHARLES BAISCH

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FULL STACK WEB DEVELOPER

Focused and quick-learning Engineering Technician with experience in medical devices and open case refrigeration who utilizes certified programming skills as a Software/Web Developer. Uses adaptive problem-solving skills to deliver innovative software and responsive web pages.

Web Development | Automation Software | Motivated | Testing

PROFESSIONAL EXPERIENCE

DENTSPLY SIRONA, Sarasota, FL

June 2017 – April 2020

Engineering Technician I

Executed the front-end production of digital setup, digital measurement, and treatment planning departments for clear aligners during restructuring and relocation of production facility. Involved in the Scan and Measurement team to reverse-engineer metal injected molded devices to match critical to quality specifications to improve production efficiencies.

- Provided front-end technical support to dentists/orthodontists for any questions regarding the clear aligner treatment planning process.
- Developed a production metric to maintain processes of certain products and to ensure project deadline was met.
- Measured critical to quality and manufacturing dimensions of orthodontic bracket assemblies using Geomagic Control for validation (IQ, TQ, OQ, PQ, CQV) processes as well as engineering studies and final product inspections.
- Provided trend analysis reports of CTQ dimensions for quality engineers, design engineers, and quality control technicians, as well as provided statistical process capability results.
- Scanned and surfaced orthodontic components using CT imaging equipment for validation processes.
- Assist digital process engineers as necessary to validate new scan and measurement processes for new product inspections.
- Support the product control and change order processes, as well as develop and write SOPs and work instructions.

UPWORK, Bradenton, FL

December 2016 – May 2017

Mechanical Designer

Freelance drafting and design work using Upwork freelancing website to remain in contact with clients. Design skills were used in a variety of fields including product design for marine life and civil engineering design layouts.

- Led designing, building, and testing of prototypes for energy efficient solar devices for marine life.
- Involved with a team to design site layouts using AutoCAD for wireless cell tower installation.
- Designed and/or scaled 3D models for customers seeking mechanical design work using SolidWorks, as well as provided 3D file conversion.
- Experience in drafting and designing using GD&T standards.

COOL FLOW DYNAMICS, INC., Sarasota, FL

November 2015 – November 2016

Project Manager

Research and development and engineering efforts towards the development of energy efficiency solutions in areas of Class 8 truck aerodynamics and power reduction for open case refrigeration units used by the retail industry.

- Managed the research and development project of retrofit energy efficiency solutions for open case refrigerated displays to reduce warm-air infiltration and reduce energy consumption. Led the design and building of Alpha prototype devices meeting ANSI and ASME standards, as well as the universal interfaces required for an effective retrofit solution.
- Provided support to the truck fuel efficiency project, including operating and conducting wind tunnel testing, engineered drawing support and production of prototypes.

EDUCATION

- **Certificates**, University of Michigan, Ann Arbor, MI
 - Python Classes and Inheritance Certification
 - Data Collection and Processing with Python Certification
 - Advanced Style with Responsive Design Certification
 - Python Functions, Files, and Dictionaries Certification
 - Python Basics Certification
 - Interactivity with JavaScript Certification
 - CSS3 Certification
 - HTML5 Certification
- **Associate of Science (AS)**, Engineering Technology, State College of Florida, Bradenton, FL; December 2016
 - SolidWorks Associate-Mechanical Design Certification
 - Computer Aided Design and Drafting Certification
 - Engineering Technology Support Specialist Certification
 - Alternative Energy Certification
 - Electronics Certification
 - Dean's List Fall Semester 2016
 - Worked as an Engineering Lab Student Assistant November 2016 – December 2016
- **Associate of Arts (AA)**, Engineering, Lake-Sumter Community College, Leesburg, FL

TECHNICAL & SPECIALIZED SKILLS

- Full Stack Web Development Certification from Udemy.
- Software Development Life Cycle Certification from LinkedIn.
- Certified in HTML5, CSS3, and JavaScript for web development.
- Experience in React.js, Redux, Node.js, Express.js, and PostgreSQL.
- Experience in responsive web design techniques like Bootstrap, Flexbox, and CSS Grid.
- Growing understanding in Object Oriented Programming languages including Python, C++, and Java.
- Knowledgeable in game development using Unreal Engine 4 and C++.
- Highly skilled in various testing protocols as well as troubleshooting malfunctions during said testing and validation.
- Outstanding drafting and design skills using SolidWorks, AutoCAD, Creo Parametric, and Design Spark-Mechanical towards testing and prototyping.
- Knowledgeable in the fundamentals of manufacturing processes and materials, mechanical instrumentation, and electronics.
- Highly skilled in Microsoft Excel, PowerPoint, and Word in terms of organization, documentation, and development of presentations for management purposes.