

Barry St. Pierre

Ann Arbor, MI 48108

Phone: 734-657-7730 | Email: barry@stpierre.com

LinkedIn: </in/barry-st-pierre> | GitHub: </bdstpierre> | Portfolio: www.stpierre.com

Summary

Experienced Mechanical Engineer looking to utilize my years of ad hoc script development in the role of Full Stack Development. Earned a certificate in Full Stack Web Development from the Michigan State University Coding Boot Camp. Able to work collaboratively as part of a team or independently as the projects require.

Technical Skills

Languages: MATLAB, HTML5, JavaScript ES6, CSS3, PHP, SQL, UNIX Scripting, perl

Applications: GitHub, MySQL, Microsoft Office and Teams, Slack

Tools: jQuery, Bootstrap, Moment, Node, Express, cURL

Relevant Experience

Manager, Homologation and Engineering Services

2012 – 2020

Mahindra GenZe

Ann Arbor, MI

GenZe was an electric scooter start-up. I was initially hired to perform computer aided engineering (CAE) but quickly gained additional responsibilities culminating in a managerial role responsible for managing the scooters regulatory footprint in both the US and Europe.

Key Accomplishments:

- Obtained Euro3 and Euro4 approval for the GenZe scooter to enable sale in Europe
- Created a web app that would allow documenting the condition of eBike returns so they could be listed for sale on the company website as used bikes

Volunteer USTA Tennis League Captain

2001 – 2019

United States Tennis Association

Ann Arbor, MI

Was responsible for gathering team members' availability for matches and creating line-ups for the matches balancing playing time and the desire to win the match.

Key Accomplishments:

- Developed a web app to simplify my duties as captain including automating emails to my teammates, tracking availability, playing time, and match results
www.annarbortennis.com/usta/team.php (password protected)
- Created a web app to schedule weekly tennis court playing time with my playing friends. Members can list their availability and the scheduler can publish the schedule <https://www.annarbortennis.com/PCT/DEMO/> (uname:barry|bob|tom, sword: demo (barry has full rights, bob has schedule rights, tom has player rights)).

Technology Leader, Development Tools

1990 – 1994

Noise Cancellation Technologies, Inc.

Linthicum, MD

Was responsible for creating development tools and managing tools others had created.

Key Accomplishments:

- Created a MATLAB script that would read in data measured from noise cancelling headphones using a Tektronix PC based analyzer and plot the noise cancelling performance metrics and annotate the curves for key parameters (noise attenuation and overshoot). This enabled the engineers to take measurements at the supplier's factory and then have the script post process the results while they were at dinner. Results were available when they returned. It would have taken them hours to plot the data themselves for 100 headsets.
- Wrote a MATLAB application that simulated the performance of a company designed Application Specific Integrated Circuit (ASIC). This allowed the user to apply measured system transfer functions to the simulation so they could see how well the ASIC would perform for their specific application. Default transfer functions were provided that they could use if they didn't have their own.

Additional Experience**CAE Project Engineer**

2020 – Present

Computer Aided Technology, LLC

Ann Arbor, MI

I work as a Senior CAE analyst evaluating product designs for fitness of purpose through virtual simulations.

Education**Bootcamp Certificate: Michigan State University, E. Lansing, MI** 2021

A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, Javascript, JQuery, Bootstrap, Firebase, Node Js, MySQL, MongoDB, Express, Handelbars.js & ReactJS.

Certificate, iOS Essentials with Swift: The Big Nerd Ranch, CA 2016

A week long boot camp that starts off teaching the Swift programming language and then teaches the fundamental building blocks of iOS.

Certificate, Information Assurance, Washtenaw Community College 2008

A program teaching the fundamentals of data security.

MS, Mechanical Engineering: University of Maryland, College Park, MD 1992**BS, Mechanical Engineering: Michigan State University, E. Lansing, MI** 1985