HAMILTON CLARK

Phone: 704.996.4464   GitHub: github.com/dhclark2   Email: dhclark2@ncsu.edu

SKILLS

▪ Mastery of Microsoft Office Suite – Particularly focused on data analysis in Excel with scripting assistance using Visual Basic for automatic indexing ▪ Proficient with Mathematica & MathCad ▪ Basic Faculty with Google Sketch, AutoCad, Ruby programming ▪ Advanced knowledge of vacuum system design, operation & maintenance ▪ SQL ▪ Literacy in wire schematics and assembly drawings

PUBLICATIONS

· IEEE TRANSACTIONS ON PLASMA SCIENCE, VOL. 42, NO. 7, JULY 2014

· Master of Science Thesis: "Ion Energy Distribution Functions Using Multi-frequency Harmonic Drive," March 2013 (http://www.lib.ncsu.edu/resolver/1840.16/8492)

· International Conference on Plasma Science: "IEDF Control Using Multi-Frequency Harmonic Drive," July 2012

PROFESSIONAL EXPERIENCE

Plasma-Therm, LLC, St. Petersburg, FL   February 2014 – August 2016

Field Service Engineer

▪ Analyzed purchase order and warranty replacement data to create a recommended spare parts kit for regular consumables, cleaning parts, and OEM components that have long lead times. Created a macro-enabled spread sheet using Visual Basic that automates most of the process from our bill of materials for use by associate engineers and marketers for new system designs

▪ Create and deliver week-long paid training course for customers and associates in the effective operation, calibration, and maintenance of the flagship primary product line, as well as several legacy products

▪ Install, commission, and maintain plasma-etch machines at costumers' sites both domestically and internationally. Troubleshoot, diagnose, and calibrate semiconductor etching and deposition hardware and affiliated software

▪ Write technical documents such as component manuals, customer service advisories, and continuing improvement plans

EDUCATION

The Iron Yard, Saint Petersburg, FL-Currently enrolled in the Backend Engineering Course

- Learning to create website applications, process e-commerce payments securely, manage databases, create APIs, and connect to third party APIs.
- Gaining knowledge of Programming Fundamentals for Ruby, Ruby on Rails, HTML, CSS, and JavaScript.

M. S. Nuclear Engineering, May 2013; North Carolina State University, Raleigh, NC.

B. S. Physics, 2009; Elon University, Elon, NC.
Independent Research and Projects: Design and implementation of an investigation of anomalies