

Diego De La Vega

DETAILS

312-956-6656

dsdelavega1@gmail.com

EDUCATION

BS in Engineering Physics at
The University of Illinois at
Chicago (Chicago IL)

▪ **ABET Accredited**

SKILLS

- Strong mechanical aptitude, problem solving and troubleshooting skills
- C++, MATLAB, Python & Java
- Logic & Circuit Analysis Software (Logisim)
- Arduino Microcontroller

CERTIFICATIONS

- OSHA 10HR Construction Safety
- Pfeiffer Vacuum Leak Detector Maintenance Certified

LANGUAGES

- Spanish (Native Speaker)
- Italian (Proficient)

SUMMARY

Dedicated interdisciplinary engineer offering experience in management & teamwork in fast-paced manufacturing setting. Self-motivated to achieve higher expectations with a strong drive to develop and improve skillset. Intuitive fast-learner with a strong technical background in physics and electrical engineering concepts.

INDUSTRY EXPERIENCE

Operations Engineer at WD Lab Grown Diamonds (MD)

July 2021 - Present

- Maximized throughput and utilization while minimizing downtime of plasma reactors
- Designed and executed experiments to determine root causes of critical reactor failures
- Assisted in designing water, electricity, & compressed dry air lines for incoming new equipment & reactors
- Optimized process conditions for multiple reactors and taught others to make similar decisions

Laboratory Research Assistant at UIC Electrical Engineering (Chicago, IL)

February 2019 - December 2019

- Grew single crystal domain using LPCVD
- Investigated new materials for applications in solar cell technology
- Verified intrinsic properties of materials using SEM, Raman Spectroscopy, & photoluminescence

Research Assistant at UIC Department of Physics

June 2017 - December 2017

- Simulated Elementary collisions using C++
- Analyzed data generated using ROOT Framework for Data Analysis (C++)
- Validated data is accurate and provided uploaded on time on the shared drive

LEADERSHIP EXPERIENCE

Service Manager at Chipotle Mexican Grill (Chicago, IL)

November 2015 - January 2021

- Identified, hired, and trained future leaders and managers
- Established new procedures to reduce costs of sales while increasing throughput
- Resolved food quality issues from the distributor to the kitchen

Midtown Educational Foundation for Boys

September 2019 - July 2021

- Tutor/Mentor for boys grades 4th - 8th weekly with 1-on-1 sessions
- Emphasis on character development, academic success, & developing good character habits
- Assisted in the design of robotics, math, and chemistry summer programs for 7th-8th graders

References upon request