

# Matthew Yang

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Systems Test Engineer II | SDET | Automation Developer

## Executive Summary

Highly motivated individual with 16 years of experience at the Hunter Douglas Corporation. Expert knowledge of all Hunter Douglas products, specifically in fabrication specifications, mechanical systems, and motorization. Innovated problem solving ability in electro-mechanical components and advanced mathematics. Sophisticated proficiency in communication, documentation, and reports with analysis. Passionate and competent in scripting languages, IOT technology, and the digital transformation of the workforce.

## Technical Skills

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**Languages:** | JavaScript/TypeScript | Python | C/C++ | MatLab | HTML | JSX | XML | CSS | HTML |

**Software Tools:** | PyCharm | WebStorm | VS Code | Segger Embedded Studios | GitLab | ClubHouse | App Center | REST | Node.js | Vim | Bash | SSH | Appium | Jira Scrum/Agile | SQLite3 | CLI | JSON | YAML | TMUX | Postman | OOP | WinSCP | Vysor | Fing | Ranorex Studios |

**Operating Systems:** | iOS | Android | Windows | Linux/Unix – Ubuntu |

**Libraries / Modules / Frameworks:** | Python: pandas, numpy, matplotlib, datetime, sqlite3, json, os, sys, wxPython, Requests, configparser, cv2, fileinput, Robot Framework | JavaScript/TypeScript: React, React native, Jest, fs, child\_process, Winston, app-root-path, terminal-overwrite, Express, Angular |

## Professional Experience

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### Hunter Douglas Window Fashions:

Systems Test Engineer II

June 2019 – Current

- Full stack developer and maintainer of Automation testing for PowerView Motorization
  - Automation test environment build in TypeScript, Python and Node.js
  - Object oriented programming
  - Frontend client-side dashboard built with Angular (Gen2)
  - Backend server-side built with Python and database managed with SQLite3
  - Post Analysis computed with Python for analyzation of test results and data visualization
- Aid in the qualification of Gen 3 shade firmware for HDIS and Production releases
- Lead in testing for the successful launch of the rechargeable battery program for PowerView
- Quantify and compute data from tests results for all PowerView products to drive engineering decisions
- Developer and maintainer of Automated testing for Gen 3 PV-Alpha application using Ranorex Studios

Engineering Test Technician

Mar 2018 - June 2019

- Scripting automation tests with Python for Gen 2 PowerView

- Regression testing of shade firmware, and iOS/Android PowerView applications
- Assisted in the certification of Apple HomeKit using HAT testing platform
- Engineering analysis of DC motors, pcbs, and electrical components
- Use test equipment to analyze current profiles and compute battery life estimates

## Additional Experience

### **Hunter Douglas Window Fashions:**

Maintenance Technician Lv. II

Feb 2011 - Mar 2018

- Electrical and mechanical troubleshooting and repair of production equipment
- Fabricate mechanical parts by following blue print schematics
- Functioning machining equipment such as lathes, mills, drill presses, and band saws

### **Hunter Douglas Specialty Products:**

Manufacturing Operations Lv. III

Jan 2005 - Feb 2011

- Shipping and Receiving Lead
- Inventory Management

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## Education

**University Of Colorado Boulder**

**Front Range Community College**

2014-2019

2010-2014

Bachelor of Science, Mechanical Engineering

Associate of Science

Applied Mathematics Minor

Magna Cum Laude

## Certifications and Achievements

### **University of Colorado Boulder:**

- SolidWorks Associate Certification
- Mobile Application development for Boulder Humane Society

### **Hunter Douglas University:**

- Geometric Dimensioning and Tolerancing
- Blue Print reading Certification
- Machining Fundamental Certification
- NFPA 70E / NEC Electrical Safety Training Certification
- Contractor Safety Engagement Team at HDWF
- Leadership and Development Course

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## References

- Richard Her, [Richard.Her@pyxix-labs.com](mailto:Richard.Her@pyxix-labs.com) (720) 383-8529
- Bill Goelz, [wfgoelz@jamixtech.com](mailto:wfgoelz@jamixtech.com) (303) 909-8553