Shayan Jahed

Brooklyn, NY 11230 | 917-294-8475 | sj3112@nyu.edu

Profile

Operations systems and automation builder with an M.S. in Robotics and Mechatronics. Combines engineering, data analysis, e-commerce operations, and practical software development to turn disconnected business workflows into clear, shared systems.

Experience

E-commerce Operations & Sales Growth

2022 - Present

BSD Trading - Apparel Wholesale

- Manage e-commerce operations across Shopify, drop-shipping, wholesale, and a 200+ SKU catalog; maintain the website and UI/UX.
- Track inventory and sales for Nordstrom Rack, Kohl's, Target, Brandboom, and other wholesale partners; Nordstrom Rack revenue exceeded $500K.
- Build weekly, monthly, quarterly, and annual reporting and use historical performance to forecast sales and inventory needs.
- Lead a multilingual warehouse team handling order processing, returns, inventory issues, and cross-functional troubleshooting.
- Streamline product submissions, offer forms, POS, line sheets, and reporting for retail and wholesale partners.

Automation & Optimization Specialist

2022 - Present

BSD Trading - Apparel Wholesale

- Built BSD Dashboard using Cursor, Supabase, Vercel, and GitHub: a shared product-lifecycle system that replaces email, Drive, and three disconnected spreadsheets for samples, factory orders, and order status.
- Enabled factory POs to become booked inventory, with production and shipping teams updating ETAs that automatically appear in sales records and notifications.
- Introduced Trello progress tracking, AI-assisted product imagery, and Python/AI-supported data automation.

Research Assistant

Jan 2020 - May 2021

NYU Medical Robotics & Interactive Intelligent Technologies Laboratory

- Analyzed EMG-based intermuscular connectivity in 40 stroke patients with upper-limb impairment to classify healthy and impaired limbs.
- Studied how tactile, visual, and kinesthetic sensory-feedback blocking affected rehabilitation progress through network analysis.
- Operated Delsys Wireless EMG equipment, created operator manuals, and developed data-collection protocols for patient studies at NYU Langone.

Education

M.S. Robotics and Mechatronics

May 2021

NYU Tandon School of Engineering

- Coursework: advanced mechatronics, optimal control and reinforcement learning, robotics simulation, design thinking, and entrepreneurship.

B.S. Mechatronic Engineering

Feb 2019

Sharif University of Technology - Tehran, Iran

- Foundation in automation, electronics, mechanical design, dynamics, vibrations, and automatic control.

Selected Projects

BSD Dashboard - Internal operating system for inventory, product lifecycle, sales analytics, line sheets, presentations, factory POs, and order workflows.

Rando Walking Robot - Built a passive dynamic walking robot; produced laser-cut parts, a test platform, and gait-parameter analysis.

Rail Surveillance Robot - Designed a 3D-printed remote rail-inspection prototype using SolidWorks, Arduino, motors, and magnetic sensing.

Carry-Me Robot - Developed a semi-autonomous follow-me robot using camera, light receivers, ultrasonic sensing, Raspberry Pi, Arduino, and Propeller.

Interactive Medical Robotics - Designed and simulated bilateral and multichannel teleoperation controllers in MATLAB and Simulink.

Publication

Nonlinear functional muscle network based on information theory tracks sensorimotor integration post stroke. Co-author. *Scientific Reports*, 2022. DOI: 10.1038/s41598-022-16483-x.

Technical Skills

Software & data: Python, MATLAB, Simulink, C, C++, Cursor, Supabase, Vercel, GitHub, Shopify, Brandboom

Robotics & controls: Arduino, Raspberry Pi, Propeller, PID, forward/inverse dynamics and kinematics, adaptive controllers, PLC (SIMATIC STEP 7)

Design & fabrication: SolidWorks, Fusion 360, AutoCAD, 3D printing, laser cutting, sensors, actuators, and integrated circuits