

# Michael Charpin

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## EDUCATION

### Bachelor of Science in Industrial Design

Wentworth Institute of Technology | Boston, MA | 2013

### Javascript Certificate

Learn Javascript Online | 2022

• Certificate projects: Form Validation, Instant Search, Todo App API, Github API, Currency Conversion API, Food Tracker.

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## EXPERIENCE

### Freelance Web Developer

January 2022 - Current | Brooklyn, NY

#### Datsun Resource [Astro, Vanilla JavaScript, HTML, TailwindCSS]

<https://datsunresource.online/> | February 2024 - Current

- Led the development of a 300-page resource website for vintage Datsuns, incorporating client requirements to recreate the look and feel of a classic Datsun parts catalog.
- Designed and implemented a fuzzy search feature with Fuse.js, enhancing user experience by accurately handling complex part names and spelling variations.
- Secured ongoing client engagement by delivering a high-quality, dependable website that preserved valuable technical information about Datsun 240z cars.

#### Tulip Tasks Prioritization App [React, Shadcn-ui, TailwindCSS, Supabase]

<https://task-priority.vercel.app/> | December 2023 - February 2024

- Designed the architecture and implementation of a project prioritization application using TypeScript, React, Shaden-ui, TailwindCSS, and Supabase.
- Conducted comprehensive discovery sessions, user interviews, and wireframing to optimize user experience (UX) and alleviate decision paralysis during development.
- Implemented a robust data structure and algorithm for efficient storage and calculation of project priorities helping users get a better handle on their ambitions

### Project Manager / Shop Manager / Animation Designer

Miniature World | July 2022 - July 2023 | Staten Island, NY

- Supervised a diverse team of 40 model makers in the creation and development of an expansive model train exhibit showcasing intricate replicas of global regions.
- Leveraged strong interpersonal and leadership skills to achieve a 30% increase in productivity through effective delegation, clear goal setting, and regular feedback.
- Established and enforced safety protocols in the fabrication shop, resulting in a 25% decrease in workplace incidents.
- Managed the procurement of cutting-edge equipment and technology, ensuring the model shop remained at the forefront of industry standards and capabilities.
- Utilized technical expertise and creative problem-solving to contribute to the development of 3 captivating mechanical animations, adding a dynamic element to the exhibit.

### General Manager

Union Garage | <https://uniongaragenyc.com/> | December 2020 - July 2022 | Brooklyn, NY

- Cultivated a high level of customer satisfaction, reflected in an average review rating of 4.9/5, by prioritizing customer education and mentoring the sales team on effective technical communication regarding motorcycle safety standards and equipment..

### Founder

Dead Channel Dice | <https://www.behance.net/gallery/178339557/Dead-Channel-Dice-Capsule> | February 2020 - January 2022 | Brooklyn, NY

- Capitalized on my passion for Dungeons & Dragons and my knowledge of industrial design to sell custom made tabletop gaming accessories.

### Senior Industrial Designer

Proteus Motion | <https://proteusmotion.com/> | January 2017 - August 2020 | Queens, NY

- Spearheaded the fabrication of 6 fully functional handle prototypes, a critical step in showcasing the viability of the Proteus fitness machine to early-stage investors.
- Demonstrated exceptional growth within the company by expanding responsibilities to encompass the entire life-cycle of the physical product, from inception to on-site service of the first 16 Proteus systems.
- Conducted user-centered research, implemented design changes based on user feedback resulting in the successful introduction of product designs that captured emerging consumer preferences leading to a 100% sales increase.
- Independently acquired the skills to design Computer-Aided Manufacturing (CAM) files and proficiently operate CNC routers increasing prototype and production component development by a factor of 10.

### Junior Industrial Designer

Zebra Technologies | <https://www.zebra.com/> | August 2015 - September 2016 | Holtsville, NY

- Working within the design team I helped to design accessories for barcode scanners, mobile touch computers, and ID printers that have since been launched to market.
- Conducted human factors research to effectively influence design choices, resulting in product features that resonated with end-users, winning multiple design awards.

### Mechanical Drafter

Gentex Corp. | <https://www.gentexcorp.com/> | September 2013 - August 2015 | Boston, MA

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## INVOLVEMENT

### After-School / Summer Camp Dungeons & Dragons | March 2020 - Present

- Created and engaged in age-appropriate D&D sessions that engaged kids & teens with interactive storytelling, promoting teamwork and imagination.

## PATENTS

### Exercise Handle

Proteus Motion. | US-11779799-B2 | October 10, 2023 | [PDF](#)

### Exercise Device Having A Linear Arm Portion

Proteus Motion. | US-11779799-B2 | December 20, 2022 | [PDF](#)

### Exercise Device Limb Interface

Proteus Motion. | US-10888732-B2 | January 12, 2021 | [PDF](#)

### Mobile device accessory

Zebra Technologies | US-D998617-S | September 12, 2023 | [PDF](#)

### Mobile device accessory

Zebra Technologies | US-D876436-S | February 25, 2020 | [PDF](#)

## PROJECT MEDIA REFERENCES & AWARDS

### Proteus Motion (previously Boston Biomotion)

HSS | March 23, 2017

[Boston Biomotion and the Hospital for Special Surgery Global Innovation Institute Partner to Transform Strength Training and Recovery](#)

Forbes | Mar 1, 2019

[This High-Tech Device Is Helping Former MLB Draft Pick Break Into The Pros After Tommy John Surgery](#)

Sports Business Journal | April 14, 2020

[A New Way to Measure Strength and Muscle Performance](#)

iF Design Award | Fitness Equipment | 2022

<https://ifdesign.com/en/winner-ranking/project/proteus-system/342927>

IDA Design Award | Gold in Outdoor And Exercise Equipment / Exercise Equipment | 2022

<https://www.idesignawards.com/winners/zoom.php?eid=9-39464-21>

### Zebra Technologies

Red Dot Design Award | 2016 | [DS3600 Series](#)

Red Dot Design Award | 2017 | [Industrial Handheld Computer TC51/56](#)

iF Design Award | 2017 | [TC51 and TC56 Touch computer](#)

iF Design Award | 2017 | [DS3600 Series Scanner](#)

iF Design Award | 2019 | [ZC Series ID Card Printer](#)

Red Dot Design Award | 2019 | [ID Card Printers ZC100 & ZC300](#)

Red Dot Design Award | 2019 | [Barcode Scanners DS8100 Series DS8100-Series](#)

### Miniature World (previously Gulliver's Gate)

New York Times | Aug. 5, 2016 | [Gulliver's Gate. a Huge Miniature World. Will Rise Near Times Square](#)

Untapped New York | Aug 14, 2017 | [Gulliver's Gate: A \\$40 Million Miniature World Now In Times Square](#)

### Union Garage

BikeExif | Oct. 10, 2016 | [Shop Visit: Union Garage, New York City](#)

NYC Motorcyclist | Feb 07, 2022 | [Union Garage Nyc Leaving Brooklyn](#)