

# Akshay Baweja

Creative Technologist / Researcher / Artist

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📍 New York, USA

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## WORK EXPERIENCE

### Embedded Systems Engineer

10XBeta, LLC [↗](#)

07/2021 - Present

New York, USA

I work with research and development team to design and develop healthcare devices that meet strict medical standards and FDA regulations. My expertise in product design and embedded systems engineering helps create innovative solutions that enhance healthcare accessibility and outcomes.

Projects worked on

- A smart oxygen concentrator capable of efficiently producing 20 LPM of oxygen from ambient air. [↗](#)
- A vape pen with intelligent control to aid in reducing tobacco addiction.
- A vital signs monitoring ring tracks ECG, PPG, body temperature, activity, and sleep quality.
- A smart abs roller with advanced technology and app for toning and training multiple muscle groups, with personal training tools and data outputs. [↗](#)

Contact: Marcel Botha - marcel@10xbeta.com

### Research Assistant (Cyborg Botany)

Parsons School of Design [↗](#)

03/2020 - 07/2021

New York, USA

With Mr. Harpreet Sareen, I designed hardware and software to collect and analyze data from plants, bridging the gap between nature and technology and paving the way for new developments in human-computer interactions and artistic installations.

Contact: Harpreet Sareen - sareen@newschool.edu

### Electronics Lab Lead

Maker's Asylum [↗](#)

09/2017 - 06/2019

Delhi, India

As Electronics Lab Head at Maker's Asylum Delhi, I designed community projects, facilitated educational workshops, and provided mentorship for members and students to promote innovation and collaboration in a supportive environment.

### Embedded Systems Engineer

CareDose [↗](#)

06/2018 - 12/2018

Delhi, India

At CareDose, a startup specializing in automated medicine management solutions, I designed and produced innovative units that have revolutionized medication adherence in India, utilizing my expertise in embedded systems and design to make healthcare more accessible and convenient for patients.

## EDUCATION

### Master of Fine Arts (Design and Technology)

Parsons School of Design, The New School

2019 - 2021

(Departmental Honors) GPA 3.98/4.00

### Bachelor of Technology (ECE)

Guru Gobind Singh Indraprastha University

2014 - 2018

(Gold Medalist) CPI 75.1/100.0

## SKILLS

Hardware Product Design

Embedded Systems Design

Full Stack Application Dev

Rapid Prototyping

Creative Filmmaking

Motion Graphics

AR/VR Development

Data Visualization

## PROJECTS

TactorBots: A Haptic Design Toolkit for Exploration of Emotional Robotic Touch (2021 - 2022) [↗](#)

- Accepted paper at **ACM CHI 2023** (To be published in April 2023)
- **Finalist at IXDA Awards 2023 under Empowering category**
- **Honorable mention by FastCompany under best student designs 2022**

Alive Memoir (2020 - 2021) [↗](#)

- **MFA Thesis** -- Parsons School of Design

Ring-O - A gesture enabled ring (2017 - 2018) [↗](#)

- **Gold Medal** - Major Project Thesis for Bachelor's Degree

SuperHero API (2017 - Present) [↗](#)

- The Superhero API is a comprehensive and programmatically accessible database that provides information on superheroes from various comic universes. With 15k monthly active users, it caters to over 30k users.

Dot<sup>2</sup> - An interactive coffee table (2016) [↗](#)

- Winner - Arduino Contest 2016 and Remix Contest @ instructables.com
- Top 12 Finalists @ MHacks Nano (University of Michigan)

Universal Electronics Component Tester (2016 - 2020) [↗](#)

- Winner - Arduino Contest 2015 @ Instructables.com
- **4 versions** -- Keychain, USB, Arduino Uno Shield and DIY

Baksa - An Art Installation (2016) [↗](#)

- 'Baksa' is an engaging art installation for The Lost Party held in Pune, India

## AWARDS AND ACHIEVEMENTS

Haptic Glove: Enabling Sensory Substitution (2020) [↗](#)

International Journal for Scientific and Technology Research (Publication)

Physical Programming Language (2020) [↗](#)

International Journal for Scientific and Technology Research (Publication)

President's Scholarship (2019 - 2021)

Parsons School of Design, The New School, New York, NY, USA

Gold Medalist - B.Tech. (ECE) (2014 - 2018)

Guru Gobind Singh Indraprastha University, Delhi, India

Winner, Best Transportation Hack @ MHacks X (2017) [↗](#)

University of Michigan, Ann Arbor, MI, USA

First Position @ HackIIITD (2017)

Indian Institute of Technology, Delhi, India