
PROFILE

I work where product, design, engineering, and strategy come together around hard technical problems.

Currently Chief Product Officer at Kayhan Space. Previously the first product designer at HawkEye 360 and a senior designer/developer across IBM Design, IBM Security, and IBM Research.

I'm strongest when products involve uncertain data, technical users, high-stakes decisions, and systems that need to be made visible, usable, and credible.

CORE RANGE

PRODUCT + COMPANY BUILDING

Product strategy, product-led growth, customer discovery, go-to-market support, brand, executive strategy, and internal operating systems.

DESIGN + TECHNICAL EXECUTION

UX, interaction design, data visualization, frontend development, design systems, prototyping, and technical architecture.

COMPLEX TECHNICAL DOMAINS

Space traffic coordination, satellite operations, RF geolocation, geospatial intelligence, AI, quantum computing, cybersecurity, robotics, HCI, cryptography, and emerging interfaces.

SELECTED IMPACT

KAYHAN SPACE

Grew from Head of Design into Chief Product Officer while helping transform Kayhan from a specialized technical product company into a broader product-led business.

MISSION SPACE

Joined HawkEye 360 as the company's first product designer and helped turn satellite-collected RF geolocation data into an analyst-facing geospatial intelligence platform.

SATCAT

Drove Satcat from product thesis to public platform with thousands of registered users, hundreds of thousands of visitors, and millions of page views over the last 24 months.

IBM RESEARCH

Designed emerging technology experiences across Project Debater, IBM Quantum, Qiskit, robotics, haptics, cybersecurity, and early AI interfaces. Patent and research work cited 220+ times.

EXPERIENCE

KAYHAN SPACE :: CHIEF PRODUCT OFFICER

2021-CURRENT :: REMOTE / BROOMFIELD, CO :: DESIGN → PRODUCT → CPO

Company transformation

Expanded from Head of Design into CPO while helping move Kayhan from specialized technical products toward a broader product-led business.

Orbital operations

Designed and helped build product surfaces across conjunction assessment, orbit determination, collision avoidance, launch coordination, LEOP workflows, and space traffic coordination.

Brand + product surface

Led redesign of Kayhan's brand, logo, website, product experience, sales collateral, event presence, and customer-facing materials.

Recognition

Contributed to product and design work recognized by Fast Company's Innovation by Design Awards in 2023 and 2025.

Public product growth

Drove Satcat into a public platform with thousands of registered users, hundreds of thousands of visitors, and millions of page views over the last 24 months.

Satcat Terminal

Designed and developed Satcat Terminal, extending orbital intelligence to financial, insurance, media, analyst, and enterprise audiences without requiring astrodynamics expertise.

AI-native workflows

Helped move the company toward AI-native workflows across engineering, analytics, documentation, product knowledge, and cross-functional enablement.

PHILADELPHIA-AREA
U.S. CITIZEN

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EXPERIENCE CONTINUED

HAWKEYE 360 :: PRINCIPAL DESIGNER

2020–2021 :: HERNDON, VA :: FIRST PRODUCT DESIGNER

Category creation

Joined as the company's first product designer and helped turn satellite-collected RF geolocation data into Mission Space, an analyst-facing intelligence platform.

Uncertain RF data

Translated RF emissions, timing, probability, spoofing indicators, error ellipses, and geospatial context into workflows analysts could use to reason and tell stories.

Performance

Improved map interaction from roughly 10–15 FPS to 60 FPS by changing how visual layers recalculated during pan and zoom interactions.

RF intelligence UX

Designed the core map, timeline, iconography, shell UI, signal workflows, analyst interactions, and frontend design system.

Technical ownership

Built the initial frontend design kit in HTML, CSS, and JavaScript; later worked across React, Redux, TypeScript, GraphQL, SCSS, Deck.gl, and Luma.gl.

Design function

Established the company's design practice, led early workshops, and managed, hired, and mentored two designers.

IBM :: SENIOR DESIGNER + DEVELOPER

2013–2019 :: AUSTIN, TX / YORKTOWN HEIGHTS, NY :: IBM DESIGN / SECURITY / RESEARCH

Research-to-product

Designed interfaces, prototypes, demos, and technical explainers across IBM Cybersecurity, IBM Design, and IBM Research.

Technical explainers

Created system-explainer videos with research teams, translating complex AI, NLP, argument mining, and debate-generation systems into clear stories and visuals.

Emerging interfaces

Contributed to robotics, haptics, physical computing, Watson IoT, and cybersecurity product experiences.

Early AI

Designed Project Debater interfaces for live debate and premier IBM events before generative AI became mainstream.

Quantum computing

Worked on early IBM Quantum and Qiskit interface concepts, explainers, and on-site visualizations for quantum circuits, queues, and computation.

Intellectual property

Served on an Invention Disclosure Board and contributed to a patent and research portfolio across HCI, cybersecurity, cryptography, robotics, quantum, and emerging interfaces.

PATENTS, RESEARCH + RECOGNITION

Patent and research portfolio cited 220+ times across HCI, cybersecurity, cryptography, robotics, quantum, RF geolocation, and emerging interfaces.

Product and design work recognized by Fast Company's Innovation by Design Awards.

Co-led a voter-nominated SXSW Interactive workshop on privacy and counter-surveillance with 60+ participants.

Wrote, designed, and published "tak...", a photobook exhibited in the official Chernobyl Library and Chernobyl Museum in Ukraine. Reached #1 in Amazon's Photo Essays category at launch.

EDUCATION

RUTGERS UNIVERSITY :: BA, GRAPHIC DESIGN

2013 :: CAMDEN, NJ

TECHNICAL + DOMAIN DEPTH

PRODUCT / DESIGN

Product strategy, UX, interaction design, design systems, data visualization, prototyping, branding, GTM support, customer discovery.

ENGINEERING

TypeScript, JavaScript, React, Next.js, Node.js, GraphQL, SCSS, HTML/CSS, CesiumJS, Deck.gl, Luma.gl, MongoDB, Supabase, Vercel, Git, Unix/Linux.

AI / SYSTEMS

AI-native workflows, internal knowledge systems, agent skills, technical architecture, complex data products, analytics workflows.

DOMAINS

Space traffic coordination, satellite operations, orbital intelligence, RF geolocation, geospatial intelligence, cybersecurity, AI, quantum computing, robotics, HCI, cryptography.

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