

Kevin Dunnell



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Profile

Big picture dreamer with the personal, design, and technical skills to execute. Seeking research opportunities to identify applications of emerging technology that solve real problems and inspire others.

Employment History

May 2019 – Present

PALO ALTO & BOSTON

Head of Prototyping

Vianai Systems

Manage team of engineers and designers to research and develop neural network optimizations, decision system introspection tools, and AI education experiences. Developed proprietary solutions that provide customers up to 100,000x faster decision-making, while reducing energy consumption. Regularly lead CXO-level customer meetings, patent application reviews, and design thinking sessions, as well as work hands-on, developing and implementing solutions.

Nov 2017 – Present

REMOTE

Chief Creative Officer

Bit Design LLC

Owner of design consulting studio. Manage globally distributed teams to design, build and present creations that bridge art with technology and digital with the physical world. Our solutions enable smaller startup customers to secure seed funding, and larger fortune 500 customers to clearly market their technology.

Mar 2018 – Present

GLOBAL

Founding Member

IdeaGist Blockchain Incubator

Foster growth of high-impact ideas for the decentralized future by reviewing proposals and prioritizing funding.

Jul 2015 – Nov 2017

PALO ALTO, CA

Senior Experience Design Lead

Infosys

Directly supported CEO and leadership team to restructure large IT service company with strong focus on AI and design thinking. Designed, built, and presented experiences with emerging technologies including: AI, AR/VR, IoT, 3D printing, and blockchain - many of these experiences are still being used today. Problem statements were vague and spanned various industries, high quality results were delivered quickly with little-to-no oversight from management. Worked across the 200k employee organization, with internal and external C-level executives, consultants, developers, global marketing & sales teams, designers, and subject

matter experts to create immersive experiences that contextualize product offerings for current and prospective clients.

May 2013 – Jul 2015
AUBURN HILLS, MI

Aero/Thermal System Integration Engineer

FCA

Responsible for thermal protection design and validation of Dodge Charger, Challenger, Police Cruiser, Chrysler 300, and other future models. Coordinated cross-functional teams, managed the development of confidential prototype test vehicles, analyzed simulations, led hot-trip road testing, and presented findings to management.

Jun 2012 – Sep 2012
AUBURN HILLS, MI

Innovation and Design Intern

FCA

May 2011 – Aug 2011
AUBURN HILLS, MI

Aero/Thermal Engineering Intern

FCA

Apr 2006 – Aug 2010
HUDSON, MA

Counselor

Children's After School Programs (CHAPS)

Sep 2008 – Feb 2009
HUDSON, MA

Legal Assistant

Yates Law Offices, P.C.

Education

Sep 2009 – May 2013
ANN ARBOR, MI

University of Michigan

Bachelor of Science in Engineering - Aerospace Engineering

G.P.A: 3.3/4.0 – Graduated Cum Laude

Minor in Art & Design

Feb 2012 – Jul 2012
SYDNEY, AUSTRALIA

University of New South Wales

University of Michigan Engineers Abroad

Projects & Organizations

Oct 2020 – Present
BOSTON, MA

Physical Artificial Neural Network

Creating 3D printable version of MNIST digit classifier, to teach how neural networks operate. Users pour water in the shape of a number into a 6x6 grid, the water flows through intersecting pipes that are sized based on a trained and quantized neural network, and finally the water falls into buckets labeled with the predicted digits.

Apr 2020

BOSTON, MA

COVID-19 Medevac Response Modeling

Explored the feasibility of coordinating a national medevac network, using idle aircraft to transfer COVID-19 patients from regions with overcrowded hospitals to areas with predicted capacity. Collected data from various public sources, modeled spread of the virus, created interactive visuals, and presented findings to the New York Times. Results and link to the source code can be found on my website.

Mar 2020

BOSTON, MA

COVID-19 Research Tool

Led design and development of a freely available research tool for medical professionals to easily explore the 200,000+ articles in the COVID-19 Open Research Dataset (CORD-19). The tool summarizes articles with Natural Language Processing and displays relationships between articles graphically (covid.vian.ai).

Dec 2019 – Present

GENEVA, PALO ALTO, BOSTON

Technovation Sponsor

Support Technovation's effort in democratizing access to AI technology by creating interactive tutorials for their Solve It Series (<https://www.youtube.com/watch?v=kzJl2vgOyhl>), speaking at events and performing research.

Feb 2019 – May 2019

LONDON, UK

AI Audio Matching, Airbit

Built a content-based audio machine learning matching system for a large audio marketplace.

Nov 2017 – Nov 2018

VARIOUS GLOBAL LOCATIONS

Remote Year - RY17 (Sisu)

Accepted among 50k+ applicants to join 40-person professional development traveling creative cohort. Lived, worked, immersed and collaborated in 28 countries. Started my own consulting business and delivered multiple technology infused art installations with international support during the experience.

Sep 2018 – Oct 2018

BOGOTÁ, COLOMBIA

Brain Machine Interface Design, Mindswitch

Designed a 3D printable prototype of Mindswitch's BMI for demonstration to investors.

Jul 2015 – Nov 2017

VARIOUS USA LOCATIONS

Infosys Foundation

Served as Assistant Director for Infosys Foundation's "Why I Make" Campaign. Interviewed notable makers, including: Adam Savage and Nick Offerman, to inspire others how to be creative and self sufficient.

Jun 2015 – Present

BAY AREA & GREATER BOSTON

Hometown Alumni Involvement Link (HAIL)

Interview prospective Michigan engineering students to capture holistic pictures of applicants for the university.

2013

ANN ARBOR, MI

Trash Removal and Abatement in Space Havens [TRASH]

Co-led mission planning to remove space debris in Low-Earth Orbit via an electrodynamic tether.

2012

ANN ARBOR, MI

Airborne Harvest

Developed & tested model of Altaeros Energies' high-altitude wind turbine to identify optimal blade geometry.

2011

DETROIT, MI

Heidelberg Project

Contributed to artistic oasis in Detroit's East side; my installation focuses on promoting rebirth of Detroit as self sustaining agricultural society, while also generating constructive foot traffic.

2009 – 2010

ANN ARBOR, MI

Student Space Systems Fabrication Lab (S3FL)

Modelled an Extendable Solar Array System (XSAS) for cube satellites in NASA's Microgravity flight program.

2009 – Present

Chi Psi Fraternity

Positions held: Philanthropy Chair, Recruitment Chair, Historian Chair, and Social Chair.

SKILLS

Personal:

Strong written & oral communication, proven leader, motivational team member, quick problem identifier and solution finder

Design:

SolidWorks, OnShape, Unity, Rhino, Cinema 4D, Adobe Creative Suite (Ps, Ai, Pr, Ae, Id, Au), HTML, CSS, Sketch, InVision, Design Thinking

Dev:

JavaScript, C++, C#, Python, R, Visual Basic, Solidity, Smart Contracts, MATLAB, Mathematica, Windows, Linux, Mac OS

Management:

Microsoft Office, Teams, Basecamp, Slack, Asana, Trello

Awards

2016

Award of Excellence – Infosys Foundation

Received for leadership role in furthering the impact of Infosys Foundation cultivating "maker" focus in US education system.

2013

Design Innovation in Feature Planning – Chrysler

Received Innovation Award from Senior Vice President of Engineering for developing a unique easy-to-load roof rack system, driven by customer feedback and design thinking workshops.

Patents

Sep 2020

TECHNIQUES FOR ADAPTIVE GENERATION AND VISUALIZATION OF QUANTIZED NEURAL NETWORKS

Patent Application

Sep 2019

VISUALLY CREATING AND MONITORING MACHINE LEARNING MODELS

Patent Application