

# MITCHELL TODD WENGER

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## SENIOR VICE PRESIDENT OF ENGINEERING AND PRODUCT DEVELOPMENT

*EXTENSIVE EXPERIENCE IN PRODUCT ENGINEERING AND MANUFACTURING FROM CONCEPT TO END-OF-LIFE*

Engineering professional with extensive experience in product development and engineering leadership for the following the sectors; education, theme parks, aerospace, green technology, medical devices and electronics manufacturing.

Skilled at leadership of multidisciplinary Engineering teams, including Mechanical, Electrical, Embedded Systems and DevOps. Goal oriented creative problem solver with drive and tenacity to deliver on-budget and on-time.

**Product Design & Engineering | In-house and Contract Manufacturing Support | Strategic Leadership**

## PROFESSIONAL EXPERIENCE

### **SAVIOR BRAIN, Vienna, VA**

**2024**

*Sports equipment startup developing advanced product to combat traumatic brain injury*

#### **SVP Engineering and Operations**

- Employee #2 (first hire)
- Developed Engineering and Operations systems to allow seamless Contract Manufacturing
- Developed In-house build and test to support product concept to production release
- Designed and developed first generation product prototypes

### **EVOLVE (dba Ozobot), Redondo Beach, CA**

**2018 – 2022**

*Industry leader in educational technology products manufacturing programmable robots for schools, and providing a website that supports teachers with tools and curriculum to teach STEAM.*

#### **VP Product Development, Hardware**

- Works as part of 4-member executive team to determine overall company strategy and direction in the marketplace.
- Heads the product development team to determine strategy, implementation and release for both hardware and web products.
- Directs a team of 16 engineers in the US and Prague, CZ.
- Coordinates with Asian contract manufacturer insuring product timing and availability.
- Guides product lifecycle management from ideation to product sunset.
- Manages all aspects of product engineering including web development, firmware, electrical and mechanical engineering teams.

### **KELLY SLATER WAVE COMPANY, Culver City, CA**

**2016 – 2018**

*Wave park company that builds and develops facilities capable of generating a surfable 6 foot barreling wave*

#### **Lead Engineer/Production Engineering Manager**

- Coordinated with the engineering team to design the second functional prototype wave machine with a budget of \$35 million.
- Launched and directed production and installation of second prototype wave machine in Lemoore, CA.
- Fostered development of team members, mentoring of technical staff and inter-organizational operations.

### **WENGER CONSULTING, see below**

**2015 – 2016**

**UNIVERSAL STUDIOS HOLLYWOOD, Universal City, CA****2014 – 2015**

*Well known theme park in the entertainment industry capable of hosting up to 35,000 guests at a time*

**Sr. Engineer**

- Second Tech Services engineering hire, responsible for creating systems, policies and procedures to establish engineering discipline for the department.
- Primary mechanical engineering resource for all rides and shows within the amusement park as well as technical lead for retrofit of the entire fleet of backlot trams.

**QUARTUS ENGINEERING, El Segundo, CA****2012 – 2014**

*A leading provider of mechanical engineering design and analysis services in several industries including the aerospace, clean energy and theme park industries.*

**Sr. Manager, Design Engineering**

- Grew design department from 1 person to 6 direct reports and ~ 10 consultants.
- Provided technical leadership and team leadership as well as individual contribution for projects in the aerospace, solar, theme park and other industries.
- Responsible for schedule and budgetary performance for multiple simultaneous projects.

**WENGER CONSULTING, Ross, CA**

*Wenger Consulting was created to allow mechanical engineering and product design consulting services to be utilized on an as-needed.*

**Owner****2007 - 2016****SENSORS FOR MEDICINE AND SCIENCE, San Francisco, CA**

*SMSI is a medical device startup creating a novel medical monitoring device in the diabetes space*

- Designed and coordinated prototype washing and drying stations for an implantable glucose monitoring device.

**SPECK DESIGN, Palo Alto, CA**

*Speck Design is a product design and engineering consulting firm.*

- Directed the engineering team in fulfilling deliverables within scheduled timeframe.

**INVUITY, San Francisco, CA**

*Medical device manufacturer of surgical illumination devices.*

- Established and maintained product development schedule resulting in successful launch and conclusion of alpha field trials.

**RAINSAUCERS, Manhattan Beach, CA**

*Rainsaucers is a rainwater harvesting startup that worked to bring fresh water to the over 1B people on the planet who have no access to it.*

- Co-founded the business and developed concept into manufacturable product.
- Managed all aspects of operations, supply chain and product manufacturing.

**ASANTE SOLUTIONS (formerly M2 MEDICAL), Sunnyvale, CA****2005 – 2007**

*M2 Medical was a medical device start up manufacturing a novel Insulin Pump*

**Engineering Manager**

- Responsible for Series A investment round of \$31 million.
- Led cross-functional management of R&D groups, coordinated with other project managers and functional areas to execute to the business plan and revise same when appropriate.
- Hired and directed multidisciplinary team of 20 engineers and engineering managers.
- Directed internal and external resources in the development, evaluation and design of working prototypes.
- Worked with legal to develop and execute IP estate resulting in over 40 patents and publications.

**KNURR, Simi Valley, CA****2003 – 2005**

*Manufacturer of custom, high end electronic enclosures for the data and server farms in the IT industry*

## **Product Manager**

Managed the sourcing of production parts for newest generation of actively cooled electronic enclosures.

- Managed evolution of the flagship product through market changes to maintain product position as the gold standard in the industry.
- Assisted senior staff with strategic product and business development plans intended to grow revenue and margin.

## **THE ECOLOGICAL ENGINE COMPANY/ THE STEAM CAR COMPANY, Southampton, England      2001 – 2003**

*Bringing about change in the automotive industry by providing clean burning internal combustion engines to the United Kingdom*

### **Managing Director**

- The Ecological Engine Company was formed out of a “green” project to clean up the air quality in the city of London.
- The Steam Car Company was a project designed to bring visibility to “green” fuels in the automotive industry.

## **COMDIAL ENTERPRISE SOLUTIONS, Charlottesville, VA**

**1990 – 2001**

*Comdial was a leading manufacturer of telecommunications equipment in the US. They were a niche market supplier of on-premises equipment for small to medium sized business.*

### **Sales Engineer**

**1999 – 2001**

### **Technical Staff Engineer**

**1997 – 1999**

### **Senior Mechanical Design Engineer**

**1995 – 1997**

### **Mechanical Design Engineer**

**1993 – 1995**

### **Technical Services Representative**

**1991 – 1993**

- Handled Project Management Responsibilities for product installation.
- Generation of SOW, detailed drawings, BOM responsibility for Network/ Communications infrastructure.
- Supervised subcontractors to maintain quality and delivery.
- Designed and tested mechanical and electronic assemblies.
- Evaluated products based on ergonomics, safety, reliability, functionality and manufacturability.
- Worked with tooling vendors during the product design phase to ensure budget and timelines were met.
- Specification and evaluation of purchased mechanical parts and assemblies.
- Responsible for specification of the assembly process as well as all BOMs and inventory flow on the factory floor.

## **EDUCATION**

**BS, Mechanical Engineering, Virginia Polytechnic Institute and State University, Blacksburg VA**