

Mark A. Jackson P.E.

21697 Frontier Road
Clovis, California 93619
559.349.3737

Education

California Polytechnic at San Luis Obispo State University, B. S. Mechanical Engineering

Registered Professional Mechanical Engineer in the State of California, M27836

Employment

- 1999- Present **President / Founder, Blue Dolphin Design and Engineering Inc.**, Madera, CA
Mechanical design, machine design, product development, project management, rapid prototyping, additive manufacturing, testing and evaluation, CAD/FEA/CFD analysis, patent assistance and expert witness testimony (Auto, Industrial and Machine Failure). Evaluation of existing machines and processes for improvement by way of retrofit or redesign. Responsible for growing company from inception to having hundreds of clients worldwide.
- 2017- Present **Executive Director / Founder, The Pi Shop, Inc.**, Madera, CA
Product related incubating space. Responsible for the direction of all daily business activities.
- 2013- Present **Partner, Rex EMS, Inc.**, Glendora, CA
Technical Development of Mission Adaptable Rescue System.
- 2011- Present **Owner, The ScanWorks**, Fresno, CA
3 Dimensional Printing and Scanning Services
- 1995-1999 **Chief Engineer, Keiser Corporation**, Fresno, CA
Responsible for the accomplishment of product engineering objectives. Provided technical guidance, budgeting, hiring and setting priorities for Engineering Department. Designed, developed and tested group cycling bicycles. Developed pneumatic strength training and electronic "Cardio" equipment.
- 1993-1994 **Engineering Manager, Pepco Incorporated**, Fresno, CA
Provided technical guidance, budgeting, hiring and setting priorities for Engineering Department. Designed, developed and tested custom injected molded products, and drip irrigation components.
- 1990-1993 **Forensic Engineer, Blair, Church & Flynn Consulting Engineers**, Fresno, CA
Responsible for investigation and reconstruction of over 200 accidents. Qualified as an expert witness in Los Angeles and Fresno County Superior Courts.
- 1989-1990 **Project Engineer, Motion Designs Inc. (Quickie)**, Fresno, CA
Designed, developed and tested the Quickie GPV, the Quickie Ti, and the industry's first composite material wheel chair.
- 1988 **Staff Engineer, Hetherington Incorporated**, Ventura, CA
Designed, developed and tested ultra high temp / ultra high vacuum furnaces.

- 1987 **Mechanical Design Engineer, American Rocket Company**, Camarillo, CA
Responsible for design and development of nose fairing, payload containment and payload jettison mechanism for the first Suborbital Launch Vehicle. Rocket was designed to take 1000 Kg payloads into lower earth orbit.
- 1984-1987 **Project Engineer, Abex Aerospace Division**, Oxnard, CA
Responsible for the design, development and testing of hydraulic axial piston pumps, actuators and Jet Pipe servo valves.
- 1982,1983 **Engineer (Student), Abex Aerospace Division**, Oxnard, CA

Presentations

- 2015 Central Valley Manufacturing Summit – Additive Manufacturing Panel Member
- 2016 Central Valley Manufacturing Summit – National Overview of Additive Manufacturing / Advances in Materials in Additive Manufacturing
- 2018 Central Valley Manufacturing Summit – Advanced Manufacturing Technologies – Insights and Impacts

Patents

- US 8,469,383 Midwheel Drive Wheelchair with Independent Front and Rear Suspension
 US 7,896,394 Midwheel Drive Wheelchair with Independent Front and Rear Suspension
 US 7,549,661 Towable Collapsible Patient Supporting Carrier
 US 5,473,961 Control Apparatus,
 US 5,894,970 Sock Aid,
 US 6,556,870 Container Holder
 US D353,188 Controller
 US D400,336 Sock Aid

Awards / Affiliations

- Vice Chair Central California Angel Conference 2018, Fund 1
- SLO Seeds Angel Investment Group
- 2012 Fresno County Compact Award
- California Polytechnic State University at San Luis Obispo Mechanical Engineering department advisory board.
- Advisory Board for the (Central California) U.C. Merced Region of the Small Business Development Commission
- Founder's Circle Member / Advisor / Mentor - Center of Innovation and Entrepreneurship San Luis Obispo, CA
- Advisory Board for the Center for Advanced Research and Technology
- Member of the American Society of Mechanical Engineers
- California State University at Fresno School of Agriculture Industrial Technology Department Advisor
- San Joaquin Valley College Technology Advisory Board
- Fresno City College Applied Technology Advisor
- Madera Unified School District / Madera High School Engineering Pathway Advisor
- DeVry University Advisory Board
- Winner of the 2010 EMS World Innovation of the Year