

Gerald A. Blackburn

Resume

CEO - Founder

Tinkers Corner Group, 501c3

Katherine & Gerald Blackburn Charitable Foundation and Trust

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ACADEMIC PREPARATION:

Certified Manager Credential, James Madison University, VA, 1988

M. B.A., Gradazio School of Business, Pepperdine University, 1983

Concentrations: Management, Organizational Development, and Systems

B.S. in Management, Pepperdine University, 1980

Concentrations: Management, Communications

A.A. in Liberal Studies, Rio Hondo College, Whittier, CA. 1973

Don Bosco Technical Institute, San Gabriel 1958 -1962

PROFESSIONAL & RESEARCH SKILLS:

Advanced Manufacturing

Materials and Processes Engineering

Environmental/Contamination Control Technology

Quality-Continuous Process Improvement

Aerospace Engineering

Aerospace History

Business Development

- Professional Development/Management Training
- Advanced Internet and Computer skills
- Survey and evaluation research techniques
- Interview and networking skills
- Program/Project Management
- Strategic Planning
- Proposal/Grant writing
- Curriculum Development
- STEM/PBL Development

PROFESSIONAL EXPERIENCE:

2009 – Present CEO/Founder, Tinkers Corner Group, 501c3 Garden Grove, California

2016–2021 Executive Advisor, Aerospace Legacy Foundation. Downey, CA

2005–2015 President, Aerospace Legacy Foundation. Downey, CA.

2011 – 2021 Director, Board Member, Columbia Memorial Space Center Foundation, Downey Ca.

2003–2005 Retired, Boeing, Space & Comm. Huntington Beach, CA.
Contract Consultant for Columbia Post Accident Analysis.

1994–2003 Boeing, Space & Comm. Huntington Beach, CA.

Quality Administration/ Project Manager

- Co-Chairman, Management Council steering committee.
- Developed and managed 15 Single Process Initiatives.
- Improved customer satisfaction and reduced indirect costs.
- Directed company interface with DoD for acquisition reform.
- Implemented 8 new common practice SPI's.

1990–1994 Rockwell Space Systems Division Downey, CA.

Project Manager

- Chairman of site steering committee for acquisition reform.
- Engineering representative to "Factory of the Future" project.
- Developed MRP-II implementation plan for engineering.
- Developed raw material identification system.

1982–1990 Rockwell Space Systems Division Downey, CA.

Materials & Processes Engineering / Supervisor

- Supervised 29 technical staff members, M&P Specifications & Control.
- Managed and coordinated M&P certifications to NASA for Space Shuttle.
- Managed and developed MATCO computer system
- Designed and developed orbital debris computer model

1964–1982 North American Rockwell SSD Downey, CA.

Engineering / Member of Technical Staff

- Developed TPS analysis systems for NASA Space Shuttle.
- Directed field site staff at KSC, Fl. on special assignment.
- Acting Supervisor for Product Support Lab.
- Established "Product Support Laboratory" for Space Shuttle production.
- Performed Environmental Control/Monitoring and Analysis
- Developed contamination control technology capabilities for Apollo and Saturn.
- Developed chemical processing procedures, methods and techniques.
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1962–1964 North American Aviation El Segundo, CA.

Member of Technical Staff

- Developed NDT Inspection Methods.
- Inspected/ developed Non-Destructive testing procedures for X-15, XB-70 aircraft
- Engineering Assistant, Production Development Laboratory

EDUCATION/TEACHING EXPERIENCE:

Beyond STEM- Southern California –Orange County – STEM Think Tank Consortium

Whittier City School District, Whittier Area Community Day School – STEM Service Contract

Director of “Tinkers Corner” Program for at-risk students

University of Southern California

Faculty Consultant for Advanced Engineering Summer Session 2014
Development and Critique of NASA Case Studies

California State University Fullerton, “Professor for the Day” Electrical Engineering
Dept. 2012,2014

Faculty Consultant, Summer Session, 2002-2004,
Annenberg, Grant , Engineering Robotics Session

Cerritos Community College, Cerritos California:

Adjunct part-time faculty, Boeing Contract Education
Business College 2001-2003
Course: Supervisory Management Certification Classes

California State University at Los Angeles:

Adjunct part-time faculty, Summer Session, 2001, Spring 1996
Industrial technology, California State University at Los Angeles
Course: Metrics for Industry

Winter 2000, fall 1999, spring 1998, summer 1996
Industrial technology, California State University at Los Angeles
Course: Materials & Processes and Manufacturing Systems

National Management Association; Professional Development Instructor

FaciliSkills, Contract Course facilitator, 2003

SMS/LDS, Course facilitator, 1993-1995
Supervisory Management Series, National Management Association
Courses: Leadership, Communication, Business, Gender Differences

RESEARCH/PROJECTS DEVELOPED AND IN PREPARATION:

“Downey’s Aerospace History”, Arcadia Publishing Book Project. (Published 2009)

Explore Engineering, Program Design & Development for Educator Enrichment Day (Teacher Professional Development) and Summer Science Camp (Elementary Students Gr: 4-12)

Summer Engineering Program, USC Robotics program for high school students.

Tech Trek, Design & Development of project based curriculum for students grades 7-12. Science and Technology, Rockwell International

Workforce Development, Design and Development of corporate and education strategies for technical workforce skills. Rockwell/Boeing Company

The Spaceship Factory, Book project

Downey’s Aviation History , Book project

Los Angeles Mini Maker Faire 2012, 2013 Pasadena Ca.

PUBLISHING, BOOKS, PAPERS PRESENTED AT CONFERENCES:

Business /Education Partnerships, STEP/STEM Conference, Riverside, Ca. 2002

NMA National Conference 1999, Savannah Ga., Management Professional Development

AIAA Space & Technology Conference 1995, Acquisition Reform

CITEA, 1993, Business and Education Partnerships

Creative Learning Systems, Western States Facilitators Training, Business Partners (1993)

“Downey’s Aerospace History 1947-1999”, Arcadia Publishers, 2008

CURRENT RESEARCH INTERESTS:

Business and Education Partnerships

Workforce Development

Aerospace Industry History

Documentation and Artifact Preservation

Hands-On Project Based Learning Methods

GRANTS/PROPOSALS SUPPORTED, SUBMITTED OR IN WORK:

Earth Resources Grant NASA Goddard, submitted 1993

Cerritos College Foundation, California Space Authority, submitted 2000

Aerospace Legacy Foundation, Aerospace Oral History Project, 2003

Aerospace Legacy Foundation, Interactive Mobile Space Station, 2003

Cerritos College Foundation, 2001, California Space Authority, Boeing Education Trust

Downey City, Space Shuttle Mockup Exhibit Center 2012-13

CSULB/ALF “ Cold War in Southern California- Historians Workshop” NEH Grant (2013)

Columbia Memorial Space Center, Facility/Program Proposal 2015

Columbia Memorial Space Center, Apollo 50th Anniversary 2018

STEM PD in China, Collaboration with Straight A Consulting Inc.2018

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PROFESSIONAL ADVISORY/MEMBERSHIPS:

California Department of education; Career Technology Education
National Management Association
American Institute of Aeronautics and Astronautics
California Science Teachers Association
National School Board Members, (Past)
International Technology Educators Association
California Industrial Technology Educators Association
Los Angeles County Science and Engineering Fair Advisory Committee
International Science and Engineering Fair Committee
Columbia Memorial Space Center Advisory Foundation, Board of Directors

PROFESSIONAL/COMMUNITY SERVICE:

- President, Aerospace Legacy Foundation 2005-2016
- Los Angeles County Science and Engineering Fair Committee (1992-2015)
- Corporate Liaison for National Future Cities Competition/NEW 1993-1996

- President, National Management Association, Southern Area Council; 1999 to 2003
- Past President, Boeing Space Chapter, National Management Association; 1994 - 1996
- Los Angeles Regional Chairman, National Engineers Week: Future Cities Competition; 1991-1994
- Business Chairman, Long Beach Business and Education Alliance (JTPA) 1988-1990
- Chairman, Los Angeles County, South Whittier Coordinating Council 1975
- Chairman Advisory Committee for Long Beach Unified School District, Applied Technology Magnet Program; 1989-1995
- Member Advisory Committee to the International Technology Educators Association 1993-1996
- South Whittier School District, Member Board of Trustees; 1979-1981
- Chairman, South Whittier Bicentennial Parade; 1976

HONORS AND AWARDS:

California State Legislature Award – Aerospace Contributions 2019
 National Management Association, Outstanding Service Award, 2000
 National Management Association, Member of the Year, 2000
 National Management Association, Leadership Award, 1999
 National Management Association, Innovation Award, 1998
 Engineering Educator of the Year, Orange County, CA, 1995

MEDIA PRESENTATIONS/SUPPORT:

NHK, International Broadcast
 Discovery Channel, Canada, USA
 Washington Post Editorial
 LA Times
 FOX News TV Technical Commentator “Endeavour LA “
 NASA Oral Histories Program
 David Livingston, “Space Show”
 NBC News
 KCAL News
 NPR, Radio Interview
 Peter Jones Productions, Blue Skies Metropolis
 The Apollo Chronicles,

CLIENTS:

The Boeing Company
Rockwell Corporation
Lockheed Martin Corporation
Space Islands Group Inc.
Space Place Inc.
University of California San Diego
California State University Long Beach
California State University Fullerton
California State University Los Angeles
University of Southern California
DeKalb County School District, Atlanta Ga.
Creative Learning Systems, Ca.
California State Department of Education
Columbia Memorial Space Center
Knott's Berry Farm, Adventures in Education
National Management Association
Los Angeles Unified School District
Los Angeles County Office of Education
Los Angeles Public Library
Straight Inc.
Youth Science Center
Whittier City School District
World Space Foundation

REFERENCES:

The following persons can be contacted:

Mr. Ted Mayeshiba, Professor, University of Southern California

Mr. Nader Moghaddam, President Financial Partners Credit Union

Mr. Ben Dickow, Executive Director, Columbia Memorial Space Center, Downey Ca.

Mr. Steve Trejo, Executive Director, Boeing Company

Mr. Ed. Smith, Vice President Rockwell International (Retired)

Dr. Lorraine Davis, Education Consultant, San Francisco

Mr. Rick Stephens, Vice President, Homeland Defense, Boeing Company (Retired)

Dr. Stuart Gothold, Professor Emeritus, University of Southern California

Dean Gilbert, Orange County Office of Education (Retired)

Dr. Michael DeMiranda, Professor, Colorado State University

Dr. Gerald Hanley, Dean, Chancellors Office, California State University

Mr. Steve Richardson, Director, Cerritos College Foundation

Mr. Richard Dahl, Consultant, California Dept. of Education

CONTACT INFORMATION

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