

GLEN GARY GRAHAM -- Educator; Curriculum-Developer; Inventor; Engineer...

“...Routinely exceeding expectations”

5432 Glenhaven Ave., Riverside CA 92506; (951) 675-0132 cell; emails: glen_graham@sbcglobal.net
and ggraham@rccd.edu

CAREER SUMMARY – vast engineering, manufacturing and teaching experiences, include:
Designated Subjects Teaching Credential in: Arts, Media & Entertainment; Engineering & Architecture;
Energy, Environment & Utilities; and Manufacturing & Product Development, granted on 3-4-2015
Developed new Digital Electronics & Solar Electric Technician Programs for Norco College
Taught Solar Technician Training programs for RCOE/RCCD and for-credit PV training at SBVC
Developed & taught ARRA, Logistics PLC Maintenance Technician Training Program - RCCD
Developed & taught NSF, Summer Innovation Institute, Technology Camps - RCCD
Taught Industrial Electrical Control Systems and PLCs for San Bernardino Valley College
Taught Electronics at Riverside Community College, 1973 to present; Lead-Faculty since 1999
Developed & taught Packaging Mechanics through North Orange County Community College
Taught Industrial Electricity through Mount San Jacinto Community College
Produced Multimedia, Video Graphics and Computer Animation, KBLM-TV & Charter Communications
Contracted as a Licensed California Electrical Contractor: C61/D5; C7
Designed Electronics and Systems Engineering for General Dynamics (GD), a Major Defense Contractor
Designed Factory Automation Systems for Sunkist Engineering, Fresh-Fruit R&D Labs
Supplied Engineering Services and Consulting (as G-Cube and Co-Alert)
Designed, Manufactured and Deployed Security Systems for Co-Alert

Instructor at Riverside Community College District, Riverside, CA: 1973-75 & 1991—present
For-Credit & Contract-Education classes since 1973—became Full-Time, Interim Faculty in 1999;
Basic and Advanced Microprocessors (hardware and software);
Technical Math and Precision Measurements; Algebra, Geometry and Trigonometry;
Programmable Logic Controller Fundamentals (PLCs);
Digital and Computer Electronics; Boolean-Algebra (computer math & logic);
Transistor Amplifier Design; Special Semiconductor Devices and Circuits;
Robotics, Hydraulics, Pneumatics and Control Systems Theory;
Quality-Systems and Methods (Introduction to Statistical Process Control);
World-Class Manufacturing

President of G-Cube, Riverside CA, concurrently, from 1989 to present
Engineering, Consulting and Contracting Services--Video Production, Graphics, Animation and Editing;
Public Television Shows and Commercial Advertising

Instructor for San Bernardino Valley College, CA, 2001 to present:
Taught Industrial Electrical Controls, ELEC-218, Microprocessors, ELECTR-266; & Semiconductors

Instructor for North Orange County Community College, CA, starting 1997: Developed and taught
packaging-mechanics curriculum, including: Electrostatic Principles; Magnetism and Electromagnetic
Devices; Electrical and Electronic Theory and Devices; Motor Control Devices and Systems; Input
Sensors and Output Drives and Actuators; Analog vs. Digital Inputs and Outputs including Conversion;

GLEN GARY GRAHAM, PROFESSIONAL EXPERIENCE, continued

Instructor for North Orange County Community College, CA, continued

Quantization, Counters, Timers and Meters, Elemental Machines and Mechanical Devices; Fundamental Hydraulics Theory, Devices and Applications; Fundamental Pneumatic Theory, Devices and Applications; Thermal Devices and Applications; PLCs: Fundamentals of Hardware & Programming.

President and CEO of NPD Corp (New Product Development Corp.): 2005 to present
Engineering Design Consultants to the Electronics Manufacturing Industry

Instructor for Mount San Jacinto Community College, CA--starting 1995

Educational Consultant, Curriculum Developer, Instructor, Customized Training: Industrial Electricity and Plant Safety--developed non-union, employee certification examination (per CAL OSHA)

Engineering Specialist for General Dynamics, Southern California: 1978-1991

Lead-Engineer, Project 788, Tactical Systems, Electronics Division, San Diego CA; *Computer Systems Manager*, Phalanx/DIVADS Weapon System Emulation. Also, developed microcomputer control interfaces to missiles & Bi-static (hidden) Radars; *Failure-Diagnosis Engineer* on SM-II, AEGIS Missiles, Pomona CA, and Stinger Missiles at General Dynamics, Valley Systems Division, CA

Electronics Engineer-II for Sunkist Growers, Inc., Ontario CA 1973-1978

Designed computer automation controls for high-speed grading & sorting Responsible for assembly coding of RT-X, designing hardware & software. Responsible for plant electrical, electronic and X-ray safety & systems

LICENSES and CERTIFICATIONS

NABCEP, (North American Board of Certified Energy Practitioners) PV ELCOK Exam
California State Contractor—C61/D5 Communications; subsequent C7-LV Electrical #420298 (inactive)
F.C.C., *Radio Amateur*, Technician's License-N6KLH, formerly WA6HPY
F.C.C., Lifetime, General Radio-Telephone Operator License (GROL): #PG-GB-069647
F.C.C., GROL-Radar-Endorsement, in addition to GROL, above
Society of Broadcast Engineers: *Certified Broadcast Technologist*: #23103; & CTO #61267
Certified Public TV Producer (Charter Communications, Riverside, CA)

EDUCATION

CSU San Bernardino, CA—B.A. in Education, Career & Technical Studies; current M.A candidate.
RCC/Norco College, A.S. Degree, and Certificate, in Electronics Technology
RCC/Norco College, A.S. Degree, and Certificate, in Electronics, Computer Systems
Chaffee College, Alta Loma CA, 1973--Microprocessor Electronics & Programming

SPECIALTY SCHOOLS

Marcraft Green Technology Instructor Training--Green Technology Concepts & Practices
Royal Wholesale Electric, Allen-Bradley PLC & Motor Controls, Instructor Training
FESTO Mechatronics Instructor Training Courses (2 weeks)
Advanced Solar Photo-Voltaic Systems, Instructor Training-- seven courses
Nano-Science & Nano-Technology: Train the Trainer & Business R/E, Levels I & II
General Dynamics, Program Manager School (completed in one month, full-time)

GLEN GARY GRAHAM, PROFESSIONAL EXPERIENCE, continued

SPECIALTY SCHOOLS, continued

NCCER.org Certified Instructor number 12118212

General Dynamics, Managing Time and Priorities

General Dynamics, Cost Account Manager's training

Computer Automation, Alpha-16; LS-II, LSI-3105, RTX, Assembly Language (3 weeks)

Hewlett Packard 21MX Assembly Language; HP 1000; RTE-IV; Drive-Writing (3 weeks),

Hewlett Packard, Systems Manager for HP-1000 and RTE-IV systems

COMPUTER LANGUAGES

FORTRAN, PBP-Basic, C and a wide variety of Mini and Microcomputer assembly-languages

Microcontrollers: Motorola, NEC, MicroChip (PIC), programmed in C & PIC-Basic PRO

Allen-Bradley PLCs: SLC-5, SLC-100, SLC-150, MicroLogix-series, Compac/Control Logix PLCs

CLEARANCES

Former EBI with multiple-accesses and Top-Secret DoD Clearance for Aerospace work

HONORS

Invited to join Golden-Key Honor Society at CSUSB, upon graduating CUM LAUDE

Joined Phi Kappa Phi National Honor Society--Phi Beta Kappa's counterpart for the Sciences

Joined Tau Alpha Pi Engineering Honor Society at Cal Poly, Pomona

SPECIAL AFFILIATIONS

Paid Consultant to the National Center for Supply-Chain Technology Education, RCCD, Norco College

RCCD, RCC & Norco College, Locally Approved Certificates in Electronics:

Wireless & Fiber-Optic Communications

Electronic Communications

Microcomputer Technology

General Electronics CORE

Analog Electronics, Analysis & Documentation

Electronics Circuit Analysis

Electronics Microprocessor Technology

Analog & Digital Microelectronics

Digital Electronics Technology & Documentation

UTILITY PATENT

SYSTEMS AND METHODS FOR ADAPTATION TO WIRELESS REMOTE CONTROL OF IRRIGATION VALVES FROM EXISTING HARDWIRED CONTROL DEVICES,

U.S. patent # 07286904, granted to Glen Graham in 2005, currently assigned to NPD Corp.

Glen Gary Graham — Educator; Curriculum-Developer; Inventor; Engineer
“Routinely exceeding expectations”