Robert Küchta, Designer
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PROJECT LIST

- 03/16 - 12/21; contractor 6 month prior. **Sr. Mechanical Designer, Fuel Technology**, Los Angeles, CA - Remote
  2015 to Present: Sr. Mechanical Designer, Fuel Solutions, Inc., Culver City, CA
  Equipment and piping designer, draftsman, Revit BIM/VDC manager responsible for creating SD, DD, CD packages of fueling equipment and equipment piping for municipal vehicle maintenance facilities. Autodesk Construction Suite 2017 – 21, BIM360, BB Revu, Adobe CS

- 06/15 - **Facilities Design** Los Angeles, CA. Survey & document asbuilts, layout new restaurants with focus on interior design, equipment layout, mechanical, electrical, plumbing and fire safety. Layout parking, ADA and front of house accommodations. Coordinate work with contractors, inspectors and owners in bringing facilities up to code and opening doors on schedule. For CAD, use AutoCAD, Inventor, SolidWorks, Illustrator and Photoshop.

- 03/14 - 11/14**: Sr. Mechanical Designer, Pepcon Systems**, Cedar City, UT (on site)
  Create and detail general arrangements of skid packages, piping, equipment, instruments for water processing. Edit changes, P&ID, create table driven parts for steel and plastic valves, pipe and connectors/fittings. Use Inventor, AutoCAD, Vault 2014

- 01/13 - 05/14**: Electromechanical Designer, Planetary Power, Inc**., Carlsbad, CA (on site and remote)
  Mechanical design developing a mobile unit focusing on mobility and classified power conversion. Design mechanical, parts/assemblies and produce parametric models and production drawings and CGI/presentations. Use Inventor, AutoCAD and Vault 2014, Photoshop, Illustrator, BOX, Webex.

- 08/24/12 - 12/12/12 **Mechanical Designer, McKenna Engineering,** Carson, CA (on site)
  Create and detail for production general arrangements of skid packages, piping and equipment for liquid/gas. Create/edit P&ID, create/edit SWX configuration tables for motors, structural steel, valves, pipe, elbow, tee dims. Use SolidWorks 2011/12, AutoCAD 2013, and Excel.

- 07/01/12 - 10/01/12 **Facilities Design (and Drafting for Plan Check)**, Los Angeles, CA (remote)
  Survey & document asbuilts, layout new restaurants with focus on interior design, equipment layout, mechanical, electrical, plumbing and fire safety. Layout parking, ADA and front of house accommodations. Coordinate work with contractors, inspectors, and owners in bringing facilities up to code and opening doors on schedule. For CAD, use AutoCAD, Inventor, SolidWorks, Illustrator and Photoshop.

- 07/11 - 09/11 - **CAD Designer** for Tibban Manufacturing, Victorville, CA (remote)
  - Reverse engineering of centrifugal pumps for downhole and other applications.
  - Produce CAD assembly, parts, detail production drawings and performance curve data sheets.
  - Use AutoCAD, Inventor, Photoshop, and Illustrator.

- 02/09 - 06/10 - **Mechanical Designer** for Scratchbuster Inc., Los Angeles (remote)
  - Design for startup; create 3D assembly model and parts for electromechanical systems.
  - Qualify materials from samples and site visits; spec/model hardware via McMaster.
  - Use Inventor, SolidWorks, AutoCAD, Photoshop, and Corel.

- 02/25/08 - 10/30/08 **- Drafting Tech** for **City of Los Angeles, Airports** 10285 Post Way, Los Angeles, CA 90045
  - Create and update ACAMS schematics schedules, details, wiring diagrams, card readers, alarms and lock schedules.
  - Support PE, electrical, mechanical and airport engineers, contractors, airport police and security.
  - Verify/document security on all facility entrances, exits, gates, tunnels and comm rooms.
  - Create and modify structural and civil drawings and details, data, communications, copper and FO systems.
  - Estimate material lengths and related hardware, connectors, etc. from source to server room via controller.
  - Create digital map of airport facility terminals and comm rooms; create details for VNET and CCTV infrastructure.
  - Create PowerPoint presentations, drawings and sketches for RFP packages, planning review.
  - Use AutoCAD, Photoshop and Premier, MS PowerPoint & Word.

- 04/09/07 - 02/20/08 - **Technical Illustrator** for **Boeing CDG** 6141 Katella Ave. Cypress, California 90630

    - Create and revise 2D isometric artwork for aircraft IPC's.
    - Systems sub assemblies, electronics, electrical, plumbing, interiors, cargo and cockpit.
    - Vector and raster conversions for tiff output and archiving.
    - Use AutoCAD, SolidWorks and Catia (translating to ACAD), ASARS PDM and Boeing Design Interface.

- 02/07 - 04/07 **Structural Design** for **Scenario Design, Inc**. 5340 Harbor St., Los Angeles, CA 90040
    - Structural and framing design for theme parks.
    - 3D modeling & detailing with XRrefs to produce production drawings and fabrication details.
    - AutoCAD, Inventor and Photoshop.

- 04/06 - 06/06 **Mechanical Design** and **Graphic Design** for **Hewitt Ind**., 5492 Bolsa Ave., Hunt. Bch, CA 92649
- Design and drafting of automotive gauge instruments.
    - Incorporate new designs and update existing CAD files, ECO's and maintain website & intranet.
    - Compile DWG to PDF packages for vendors and intranet updates.
    - Creative for marketing brochure and WEB pages.
    - Use AutoCAD, Inventor, Photoshop, and FrontPage

- 05/06 - 09/07 **Architectural Interior Design and Drafting** for **RDI** 8939 S Sepulveda Bl Ste 450, LA, CA 90045
- Drafting restaurants CD packages, details and layouts for new construction and renovations, equipment and HVAC
    - Create new and CAD takeoff construction drawings, elevations, floor plans and facility layouts.
    - Lighting, electrical and equipment locations; generate BOM and schedules.
    - Correct ECO's and redlines, do site surveys.
    - Use AutoCAD 2005, Photoshop, and KCL-CAD

- 04/06 - 07/06 **Drafting Tech** for **City of Los Angeles, Airports** 10285 Post Way, Los Angeles, CA 90045
- Drafting for IT, PC, personnel and data/comm locations throughout Ontario, Palmdale, and Van Nuys airports.
    - Create facility interior floor plans, modify existing and create layouts and details.
    - CAD takeoffs, scanning and tracing of TIFF images.
    - Use AutoCAD 2006, Photoshop.

- 06/05 - 10/05 **Architectural Drafting (structural and MEP)** for **Butler Rogers Baskett Architects**, Norwalk, CT
- Drafting commercial and residential interiors, exterior elevations, execute ECO's, correct red-lines and general changes.
    - Create new and CAD takeoff bid and CD packages, detail elevations, floor plans and facility layouts.
    - Use AutoCAD 2004, Photoshop, Oce' equipment.

- 09/04 - 06/05 **Mechanical Designer** for **Nearfield Systems Inc.**, Torrance, CA
- Satellite RF measurement systems for military and government installations.
    - Unit modeling, 3D assemblies and production drawings utilizing ANSI and MIL standards.
    - Use Mechanical Desktop, SolidWorks and Inventor.

- 04/04 **-** 09/04 **Tool Designer** for **VIRCO Manufacturing** 2027 Harpers Way Torrance, CA 90501
- Furniture production tooling & fixture design.
    - Design welding fixtures for robotic and manual applications.
    - Design assembly jigs & fixtures; reverse engineering and retrofitting of tooling.
    - Space planning for production, work centers, executive management and engineering.
    - Use AutoCAD 2004, Mechanical Desktop and SolidWorks.

- 05/03 - 02/04 **Mechanical Designer** for **Firing Circuits,** Shelton, CT
- Electronics packaging design of industrial power equipment
    - Packaging and mounting of cell and battery formation equipment, 50 & 60 Hz modules utilizing up to 480 V.
    - Manage drafting department and create product spec sheets and materials for company web site.
    - Support electrical engineers to develop new industrial power equipment including retrofitting and upgrades.
    - Extensive facilities design and planning for relocation including moving and renovations to new facility.
    - Use AutoCAD, SolidWorks, Photoshop, Corel and FrontPage, MS Office, Jobscope.

- 08/03 **Drafting Instructor** for **Porter & Chester Institute**, Stratford, CT
- AutoCAD Basic 2D to advanced 3D for mechanical, architectural and civil students.
    - Created and improved existing curriculum.
    - AutoCAD 04

- 06/03/ - 08/03 **Mechanical design and drafting** for **John Zink**, Shelton, CT
- P&ID, mounting structures and assemblies for pollution control combustion interface.
    - Design for processing equipment, piping, valves, hardware and pumps.
    - Windbox scale modeling to locate veins and adjust burners to increasing pollution control efficiency.
    - Worked in the model shop cutting and assembling scale models for testing.
    - Use AutoCAD and MS Office and machine shop equipment, Bridgeport, lathe, hand tools.

- 2001 - 2003 **Landscape Designer** and **Graphic Artist** for **Ambrosio Bros. Contracting**, Wilton, CT
- Design landscapes, drive, walkways, patios, planting plans, outdoor kitchens, pools, spas and water-features
    - Projects include complete makeovers, excavation and construction requiring permits, creating plot plans, include water mains and sewers and P&Z headaches.
    - Photography and 3D imposed presentations, ad marker and PC rendering.
    - Use AutoCAD, Photoshop, Quark

- 2001 - 2004 - **Graphics Designer** and **Sign Installer** for **Eye Poppers**, Stratford, CT
- Designer; assistant to owner, responsible for many projects.
    - Create vector and raster artwork.
    - Vinyl design, cutting and installation, trade show exhibits, storefronts, vehicle, vessel lettering & graphics.
    - Dimensional signs fabrication, assembly and installation.
    - Use AutoCAD, FlexiSign, Photoshop, Quark, 3D Studio & MS Office.

- 2001 - 2002 **Designer** for **Jozef Custom Ironworks**, Bridgeport, CT
- Wrought iron design for custom architectural and landscape applications.
    - Railings, fences, driveway gates, doorway entrances, lighting fixtures, fireplace accoutrements.
    - 2D and 3D modeling, production drawings and proposals.
    - Obtain zoning and planning codes for construction; do site surveys.
    - Create extensive CAD library. Use AutoCAD 14, 3D Studio, Photoshop, MS Office, Cool Edit

- 2000 **Designer** and **Space Planner** for **Automation Engineering Corp.**, Windsor, CT
- Design and drafting of robotic work centers and assembly tooling.
    - Detailing of robotic armature and related components to customer's production work centers.
    - Design cells, robotic assemblies and components.
    - Create floor plans and moving parts study and calculate unit's task and square footage of operation.
    - Ensure integrity of designs. Generate and execute eco's. Create CAD library.
    - Use AutoCAD 2000, Inventor 1

- 2000 **E-M Designer and Drafter** for **Sadlak Design, LLC**, Coventry, CT
- Design and drafting of automated machinery and sub assemblies for manufacturing production.
    - Design to customer specific tooling and existing machinery.
    - Specify components and material.
    - Drafting of schematics and revise drawings.
    - Use AutoCAD 14.

- 1999 **A&E Space Planner; academic renovations** for **UCONN**, Storrs, CT
- Designer/drafter for academic renovations laboratories, classrooms and student areas.
    - 3D drawings of HVAC, plumbing, electrical, classroom case and millwork,
    - Support all departments in projects scheduling of demolition, construction materials scheduling and ordering.
    - HVAC routing to environmental and human safety specifications related to biological research.
    - Kewanee casework, cabinetry, tables, tops, sinks, lab equipment, exhaust hoods, gas, electrical and lighting.
    - Use AutoCAD 14, 3D Studio and Photoshop.

- 1998 **E-M Designer** for **DIBA Industries**, Danbury, CT
- Engineering, design and drafting of components, assemblies, electrical and tubing and harness.
    - Fluid handling medical equipment tubing (.180 -.030 I.D.) peek, Teflon,
    - Create presentations, spec sheets, instructional material and IPC graphics.
    - Use AutoCAD 14 and Photoshop.

- 1998 **E-M Designer** for **Kimberly-Clark Corporation**, New Milford, CT
- Draftsmen for automated line assembly packaging equipment and sub assemblies in the Infant Care Division
    - Cell revisions, updates and retrofits.
    - Create and update electrical, pneumatic and hydraulic schematics. Use AutoCAD 14.

- 1997 **Tool Design and Facilities Design** for **VIRCO Manufacturing**, 2027 Harpers Way Torrance, CA 90501
- Design and ECO's for assembly tooling and fixtures for school furniture production.
    - Plant layout and reorganization of the companies' 12 acre manufacturing facility including corporate offices.
    - Use AutoCAD 14.

- 1997 **E-M Designer** for **Photronics - Beta Squared**, Danbury, CT
- Optoelectronic lithography and silicon wafer handling systems retrofit design and drafting.
    - 2/3D R&D of tooling and parts for Perkin Elmer 600 HT production machines.
    - Produce catalog artwork.
    - Use AutoCAD 12, MS Office and Photoshop.

- 1997 **3D Solid Modeler** for **Ortronics**, Pawcatuck, CT
- IT open architecture systems drafting and surface modeling.
    - Rack systems, electronic packaging, cabinets and enclosures.
    - Developed CAD library for distribution.
    - Use AutoCAD 12 with AME.

- 1996 **Design Drafter** for **Straton Industries**, Stratford, CT
- Tool and Die
    - Drafting and detailing; revise ECO's and ECN's.
    - Designed a stamping die set for small parts.
    - Use AutoCAD 13.

- 1996 **3D Modeler and Graphic Artist** for **OEM Controls**, Shelton, CT
- Create production drawings of hand held, joystick motion controllers.
    - Create parts and assemblies for CAD library.
    - Graphic design for sales and production.
    - Use Mechanical Desktop 1, AutoCAD 13, Photoshop and Topas.

- 1995 **Animator and Graphic Artist** for **The Dudicals, Inc**., Irvine, CA
- Animator and Modeler
    - 3D models for character and environments for an interactive game and video.
    - Use AutoCAD 12, AME, Topas, Photoshop, 3D Studio and Autodesk Animator Pro.

- 1995 **3D Design Modeler** for **Hughes Aircraft**, El Segundo, CA
- PCB assemblies with RF components and microelectronics in place.
    - Use AutoCAD 13.

- 1995 **Mechanical Designer** for **SYSECA, Inc**., Marina del Rey, CA
- Civil drafting, mechanical design and schematics for Metro Line system controls in Los Angeles.
    - Rack mount systems layout and drafting.
    - Wiring diagrams, conduit layouts, sub assembly, details and equipment schedules.
    - Use AutoCAD 13

- 1994 **Graphic Design** for **Robohand Inc**., Monroe, CT
- Create pre-press page layouts, modeling, drafting, rendering, illustration and technical writing.
    - Use Quark, Photoshop, Corel, AutoCAD 12 with AME, 3DS, Topas.

- 1994 **Designer** for **Edwards Corp**., Farmington, CT
- 3D solid modeling of fire and signaling systems components and sub assemblies for injection molding design.
    - Contribute extensively to existing CAD library & Use AutoCAD 12 with AME.

- 1994 **Mechanical Designer and Draftsmen** for **CD Associates**, Irvine., CA
- Drafting and reverse engineering of rack mounted electronics, machined parts and micro mechanisms used for CD duplication systems.
    - Designed electronics packaging.
    - Use AutoCAD 12 with AME, Topas and Quark.

- 1993 **CAD Operator** for **Disney Imagineering**, Glendale, CA
- Rockwork engineering.
    - Vector reproduction of faux rocks and boulders via scale model digitizing.
    - Use AutoCAD and Faro 3 axis digitizer; translate for CNC production.

- 1993 **Drafter and Graphic Artist** for **Electronic Ballast Technology**, Torrance, CA
- Design and drafting of electric transformer bobbin to customer specifications for 110 and 220 systems.
    - Create isometric drawings for production instruction, routing and spec sheets, IPC's and manuals
    - AutoCAD 12, MS Word and Excel.

- 1992 **Graphics and Mech. E-M Designer** for **Contex Electronics**, Gardena, CA
- Design and drafting of cabling and D Sub and SCSI connector assemblies.
    - Create connector and mold design to customer specifications.
    - Use AutoCAD 12 with AME, 3D Studio, Quark, Photoshop and Corel Draw.

- 1991 **Electro Mechanical Drafter** and **Graphic Artist** for **LEDtronics**, Torrance, CA
- Create product catalog, marketing and engineering spec sheets and product technical writing.
    - Use AutoCAD 11, MS Word, Quark and Photoshop.

- 1991Disney, Glendale – 2 months; Rockwork Engineering, AutoCAD Mechanical Design/Drafting/Detailing

- 1991 **Electro Mechanical Designer** for **American International Technologies**, Torrance, CA
- Design and drafting for radioactive waste disposal systems.
    - Design, draft and fabricate prototypes.
    - Design electronic packaging.
    - Extensive R&D, machine shop use and modifications.
    - Use AutoCAD 10.

- 1990 **E-M Designer** for **US Range**, Gardena, CA
- Sheet metal design and layout drafting for in house production of restaurant equipment.
    - R&D and design improvements to accommodate UL certifications.
    - Electronics packaging.
    - Mostly hand drafting, board work and paste-up. Some AutoCAD 10.

- 1990 **Electrical Drafter** for **Motorola**, Manhattan Beach, CA
- PCB design and drafting artwork, components, create traces for RF amplifiers.
    - Plotting and cutting Rubylith for camera ready line-work and utilize stat camera imaging.
    - Use AutoCAD and Gerber.

- 1989 **E-M Designer and Drafter** for **H.B. Engineering**, Redondo Beach, CA
- Drafting of aerospace weapons optics systems and mounting equipment for USAF/FAA, Los Angeles.
    - Hand drafting, board work.

- 1988 **E-M Drafter and Graphic Artist** for **Rotair Industries**, Bridgeport, CT
- Design drafting of rotary winged aircraft parts and sub-assemblies.
    - Page layouts for IPC.
    - Hand drafting, board work and paste-up. Some AutoCAD 9.

- 1987 **E-M Drafter** for **Norco Corporation**, Georgetown, CT
- Design drafting, layouts and ISO's of laser and wire guided weapons systems.
    - US Army and overseas development contracts.
    - Hand drafting, board work.

- 1987 **Electro Mechanical Drafter and Graphic Artist** for **Pierce/Correll**, Milford, CT
- Design drafter, layouts and ISO's and Graphics for IPC and parts catalog.
    - Involved in all systems electronics, hydraulics, pneumatics and equipment.
    - Create vehicle modification specs to accommodate equipment mounting.
    - Document all additions and changes.
    - Hand drafting, board work.

- 1986 **Tool Designer** for **Robertshaw Controls**, Milford, CT - Environmental Controls
- Tool design of welding, drilling and assembly jigs and fixtures.
    - Government projects include USAF, USN and contractors
    - Hand drafting, board work.

- 1986 **Electro Mechanical Designer and Drafter** for **W.S. Rockwell**, Fairfield, CT
- Tooling and fixture designer for automated machinery units, subassembly and interfacing.
    - Processing ovens and conveyor systems for automotive and aircraft parts production.
    - ASME steel piping layout to heat exchanger.
    - Design drafting of electrical system, components and sub assemblies.
    - Drafting of electrical schematics.
    - Hand drafting, board work.

- 1985 **E-M Drafter** for **Nash Engineering**, Norwalk, CT
- Structural framing design. P&ID for skid mounted petrochemical systems equipment.
    - Hand drafting, board work.

- 1985 **Tool Designer and Mechanical Design Drafter** for **Charter Arms**, Stratford, CT
- Product drafting, eco's and tool design, jigs and fixtures for firearms manufacture and assembly.
    - Create process of operation and routing sheets.
    - Engineering documentation clerk.
    - Hand drafting, board work.

- 1984-1985 **Graphic Artist and E-M Drafter** for **Anton/Bauer**, Shelton, CT
- Technical illustration and page layouts for IPC of external AC power supplies for audio\video industry.
    - Create artwork for silk screen process. Hand drafting & board work.