

MELODIE O'BRYAN
Snowmass Dr. Houston Texas 77070
(281) 251-5909/Cell (281) 682-8930

POSITION: CONTROL SYSTEMS/ELECTRICAL DESIGNER

QUALIFICATION SUMMARY:

Seventeen (17) years in the Petrochemical Refining, Petroleum Marketing, Chemical Process, Pharmaceutical, Power Plant & Manufacturing industries within Engineering & Construction environments. Control Systems/Electrical background and multi-disciplinary involvement. Experience includes development of Power distribution, cable tray, conduit, grounding & lighting plans. P&ID's, schematics, Wiring interconnects, loop diagrams, equipment arrangements, cable schedules, instrument I/O reports. Field surveying, as-building, board and CAD drafting. Estimating, purchasing, material take-off, procurement, scheduling and administration. **Licensed AutoCAD 2000, Microsoft Office 2000 Professional software and workstation. Extensive database development, Microsoft Access & Excel. AutoCAD 14/2000i/2002 and Intergraph/Microstation SE proficient, PDS 2D & 3D and Rebis AutoPLANT.**

EMPLOYMENT HISTORY:

October 2002 - February 2003

Tesla Power & Automation, Houston, Tx. (contract) Electrical Designer -Switchgear Upgrade project. Deliverables included equipment location, cable tray, grounding, conduit & lighting plans and details. Utilized layer manager for model & paper space with multiple viewports to create one file containing 20 drawings-Autocad 2002. Assisted with wiring interconnection diagrams, cable schedule and schematic diagrams for the project.

October 2001 - September 2002

National Energy Production Corp. (NEPCO) Bothell, Wa. (contract) Combined Cycle Power Plant Projects, I&CS Designer/Checker; Instrument Junction Box & Power Panel Arrangements, Wiring and Rebis generated Loop Diagrams (deliverables). Cable Schedules, REBIS AutoPLANT database (Foxpro/Access '97) development & AutoCAD 2000i. Access database development and programming.

February 2000 - September 2001

Voith-Siemens Hydro Power Generation, York, Pa. (contract), **New York Power Authority** Control System Modernization project. E&CS Designer responsible for design & development of construction drawings & group compliance of drawing standards. Location plans, installation & demolition details, panel arrangements, wiring diagrams & schematics typicals. Developed panel arrangements for RTD j-boxes. Involved in panel fabrication & testing TLJ Switchgear in New Zealand. Microstation, AutoCAD & Access.

September 1999 - February 2000

Lockwood Greene, St. Louis, Mo. (contract), John Sanders - Supervisor E&I Designer, **Mallinckrodt-Pharmaceutical** Processing Building Responsible for I/O count and card assignment for DCS/PLC System (Fisher-Rosemount Delta V). Developed database (Access), schematics, location & lighting plans (AutoCAD 14).

August 1998 - November 1998

Petrocon Engineering Co., Houston, Tx. (contract), Instrument designer for **Saudi Aramco** (Riyadh) DCS upgrade project. Assigned to PID group and Systems group. Implemented design changes on drawings and incorporated data into project (Microsoft Access '97). Generated loop and wiring diagrams using Petrodoc (FoxPro).

March 1997 - August 1998

M.W. Kellogg Company, Houston, Tx. (direct), Electrical and Instrument Designer FCC Team Refining Group for **Valero Magnacat** and **Shell Wood River** projects. Utilized AutoCAD rel. 14 and Microstation to develop wiring drawings, loop diagrams, instrument installation details. Developed grounding and cable schedule drawings.

Sonarco, Algeria Project - Designed cable tray plan drawings and details, Cathodic protection, grounding, power, lighting plans and detail drawings utilizing Microstation and PDS Drawing Manager.

Sunoco, Gerard Pt. FCC Project - Sr. Electrical/Instrument drafter responsible for design package on process area modification projects. Plans, details, & schematics using AutoCAD 13 and Intergraph 5.1 on NT workstation. Nitrogen Leasing Co. Project, Trinidad - Participated in the development of design drawings using CAD. Design for details of control logic, schematic and loop diagrams, MicroStation 5.0. Clix Vax Workstation.

February '96 - December '96

DuPont/John Brown Engg. Louisville, Ky. (contract), Electrical Designer for Power group at the Louisville Works Plant site. Utilized MicroStation rel. 5.0 (Falcon), Access and All-in-one to produce project packages of design drawings consisting of Electrical and Instrument details, DCS loops, P&ID's, ICD's, plant power distribution, one-line wiring diagrams, schematics, equipment arrangements, lighting & grounding plans per DuPont standards, specifications and project scope of work. Developed database to automate lists, transmittals, requisitions and input sheets (Microsoft Access). Field data verification and as-built activities, piping and structural drafting work.

November '95 - February '96

Texaco/Huntsman Corp., Conroe, Tx. (contract), On-site Electrical AutoCAD Drafter for Process Safety Management group responsible for updating all Electrical drawings for process hazards analysis. Utilized AutoCAD rel. 12.0 via AutoManager Workflow to update plan drawings and generate new plans, arrangements and detail drawings, revised existing drawings per client standards and NEC guidelines.

May '95 - August '95

Stone & Webster Engineering, Houston, Tx. (contract), Assigned to Sr. Instrument Engineer in the Control Systems group on Saudi Aramco (Uthmaniyah) Gas Plant Project. Provided Engineers with P&ID's, Logic and Loop diagrams, Plans and Equipment Arrangement drawings for systems supporting the additional plant facilities per Aramco specifications and Stone & Webster standards (ISO 9001) utilizing MicroStation release 5.0.

May '94 - January '95

Ameritex Design-Build, Houston, Tx. (direct), Designer and Administrator of construction projects for **Texaco** gas stations and other commercial Petroleum marketing facilities. Bid package preparation per client plans and specifications. Developed preliminary plans and estimates for independent marketers. Performed material take-off for estimating and fabrication drawing review. Redlined design & construction drawings, organized and coordinated subcontractors and vendors for proposals, negotiated job buy-out. Selected subcontractors, initiated and expedited purchase orders and scheduling. Involved in all phases of construction project execution.

April '94 - May '94

Joy Environmental, Houston, Tx. (contract), Electrical/Instrument board and CAD drafter on **Davey International** projects. Developed instrument control diagrams per engineers specifications, produce schematics, wiring diagrams, equipment arrangements, lighting and grounding plans and DCS loop diagrams. Miscellaneous P&ID as-built work. Utilized Intergraph MicroStation rel. 4.

November '93 - March '94

Technical Assistance Co., Inc., Houston, Tx.

Performed system conversion as computer technical assigned, from Basic to Symantec database. Developed and customized software per specification. Provided support to recruiters via resume screening, coding/classifying, data input/output and screening.

April '92 - June '92

B.A.S.F. Corp., Houston, Tx. (contract), Cad support assigned to Engineer on Freeport Waste Water Treatment, TDI Optimization and Giesmar THF Recovery projects. Instrument location, lighting and grounding plan drawings, motor schematics, single-line and DCS loop diagrams.

September '85 - April '92

Allstates Design & Development Co., Inc., for **DuPont**, Houston, Tx. (direct), Electrical and Instrument designer/drafter on small fast track DuPont projects. Developed detailed design and construction drawings. Cable schedules, instrument indexes, field data development and as-built activities. Dbase III & IV database development. Intergraph Microstaion CAD Rel. 2.9

TRAINING AND EDUCATION:

- Rebis AutoPLANT Instrumentation Design Level 1 Training - 40 hrs ('01)
- Intergraph Plant Design System (PDS) 3D Equipment & Piping Modeling ('98) U of H
- Intergraph CAD, 13 yrs. 5.1 (Clix Sta.VAX), MicroStation (DuPont '87) '95 and SE
- AutoCAD, 7 yrs. Release 11 through 2002
- DuPont Corporate drawing scheduling and materials management - Wilmington, DE ('86)
- Microsoft Windows Office '95, '98 & 2000 Professional for NT workstation
- Microsoft Access '97 & 2002, DBASE IV & FoxPro database software. Lotus, Excel spreadsheet software and DOS
- All-in-One interoffice network office/e-mail system, Lotus Notes & Outlook
- North Harris Community College, Business and Technical/Mechanical drawing

REFERENCES:

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|---|----------------|
| Brad Wojcik-Project Manager Tesla Power | (281) 444-1200 |
| Britt Teegarden-Chief I&C Engr. NEPCO/SNC Lavalin | (425) 896-4000 |
| Glenn Wright-I&C Engineer NEPCO/SNC Lavalin | (425) 896-4000 |
| Tuan Phan- CS&E Engr. Honeywell | (713) 856-8621 |
| Maurice Davis-Lead Engineer Voith-Siemens | (713) 629-5700 |
| Daryl Stevenson-Project Mgr. Voith-Siemens | (717) 792-7000 |
| John Sanders-Lead Engineer Lockwood-Greene | (314) 919-3200 |

(Revised 4/25/03)