

366 Stonewolf Court (702) 460-0446  
Las Vegas, NV 89148 email: bocircuits@yahoo.com

## Mark G. Surra

### Objective

A challenging career-oriented position as a member of an electronics engineering technology team.

### Experience

June 2006–Present Aristocrat Technologies, Inc. Las Vegas, NV

#### **Electrical Engineer II**

- Assist in the design of new equipment based on new hardware electrical specification requirements.
- Provide all PCB Design Engineering skill sets to meet DFM requirements.
- Establish RoHS compliance for all electrical/electronic parts & new designs.
- Integrate PCB component and assembly activities with vendors and contractors.

November 2005–June 2006 Beta-Omega Circuits Las Vegas, NV

#### **Independent Contractor**

- Completed various PCB layout projects per customer requirements.
- Assisted customer with the documentation requirements for RoHS compliance.

October 2002–November 2005 bZillions, Inc. Las Vegas, NV

#### **Electronics Engineer**

- Responsible for assisting hardware engineers in the design and development of complex and detailed layouts of printed circuit boards.
- Assist with First Article and Prototype assembly and first production run of new products.
- Work from preliminary schematics, part lists, and basic description of the board function, configuration, and arrangement as defined by engineering.
- Integrate PCB component and assembly activities with vendors and contractors.
- Proficient in use of OrCAD Capture & Layout Plus PCB design software.

June 2002–October 2002 RAMiX, Inc. (Ventura, CA) Henderson, NV

#### **CAD Engineer**

- Responsible for the PCB layout of high-speed telecommunications equipment.
- Assist product design, documentation, and maintenance of existing designs.
- Gained experience using AutoCAD, Allegro & Spectra PCB design software.

June 1994–May 2002 Aristocrat Technologies, Inc. Las Vegas, NV  
(formerly Casino Data Systems)

#### **Electrical Engineer II**

- Responsible for the PCB layout of all hardware products designed in R&D.
- Assist product design, documentation, and maintenance of existing designs.
- Point of contact for all PCB manufacturing and assembly issues.
- Provide all second source electronic component specifications to MFG. Eng.
- Assist in audio recording & sound editing for game development.

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### Experience (con't)

Feb 1989– June 1994 Alliance (formerly United Gaming) Las Vegas, NV

#### **Electrical / PCB Designer**

- Responsible for coordination of engineering electronic designs to final product.
- Created electronic assembly drawings and circuit board fabrication drawings.
- Assisted with game troubleshooting using standard bench equipment.

Oct 1987– Feb 1989 Saunders & Associates, Inc. Scottsdale, AZ

#### **Electronics Project Engineer**

- Responsible for configuration, installation, and system operation of various products before QA analysis.
- Developed skills with electronic bench test equipment, QUICKBASIC programming, and computer CAD schematic documentation.
- Entered company as Engineering Technician, promoted in April of 1988.

Nov 1986– May 1987 Communication Design, Inc. Phoenix, AZ

#### **AV Systems Specialist**

- Assisted in creating custom A/V systems for clients specific needs.
- Developed Arizona Automobile Association Training room & assisted in the design for the Phoenician Golf & Tennis Resort.

### Education

1980–1985 Arizona State University Tempe, AZ

- B.S., Electronics Engineering Technology.
- Area of Emphasis, Communication Systems Technology
- Work-study program as Broadcast Technician for KAET-TV Ch 8 working on installation and maintenance of ITFS & MATV equipment.

### Certifications

- IPC – Certified Interconnect Designer, 2001

### References

#### **Jay B. Stone**

1509 Ten Palms Ct.  
Las Vegas, NV 89117  
(702) 363-1284

#### **Thomas Miner**

2836 Cotton Cloud Rd.  
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#### **Rex Carlton**

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