

# JONATHAN PLUMMER

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## EDUCATION

Brigham Young University, Provo, Utah. Master of Science, August 2003.  
EMPHASIS: Electronics Manufacturing, Automation & Robotics  
GPA: 3.79

Brigham Young University, Provo, Utah. Bachelor of Science, April 2001.  
MAJOR: Electronics Engineering Technology  
MINOR: Japanese

### RELEVANT COLLEGE COURSE WORK:

- RF Communications
- High Frequency Amplifiers
- Manufacturing Simulation
- Operations Management
- Electronic Instrumentation
- Electronics Manufacturing
- DC/AC Circuits
- System Controllers
- Industrial Electronics
- Assembly Programming
- Quality Manufacturing
- Japanese Conversation
- Digital Circuits
- Computer Interfacing
- C++
- Networking
- Embedded Systems
- Business Japanese

## EXPERIENCE

**ELECTRICAL DESIGN ENGINEER.** Sumitomo Electric Wiring Systems Inc. –  
Toyota Technical Center. Ann Arbor, MI. Sept. 2003 - Present.

- Project leader of wire harness design team of electrical & mechanical engineers.
- Wire harness routing design for the 2005-2013 Toyota Avalon.
- Power distribution & circuit design for the 2007-2013 Toyota Avalon.
- Negotiate with various departments to package components & wiring in vehicle.
- Reduce part # variations by combining vehicle specs & wiring options.
- Resolve wire harness design & packaging issues using 3D CAD (Catia V5).
- Perform quality assessments and design reviews for vehicle electrical systems.
- Benchmark other vehicles for value engineering, new technology, & trends.
- Train new engineers on vehicle packaging, tolerances, design strategies, etc.
- Negotiate with Japanese counterparts about wiring/electrical issues in Japanese.

**NETWORK OPERATIONS SPECIALIST.** Brigham Young University Information  
Technology Services. Provo, UT. June 1998 - Sept. 2003.

- Monitor Servers/Mainframe computers, Monitor batch production jobs.
- Oversee university computer network including Cisco IP telephones.
- Administer network installation, repair, and maintenance.
- Configure network switches, hubs, and ports for clients.

**PILOT / SOFTWARE ENGINEER.** Engineering System Co. Matsumoto, Japan.  
May - August 1999/June - August 2000 (summer internships).

- Test pilot of a prototype one-man helicopter.
- Demonstrated helicopter in the world's largest air show.
- Developed software for a milling machine to carve lead alloy parts.

## SKILLS

**LANGUAGE:** Read, write, and speak Japanese

**COMPUTERS:** Windows, UNIX, Solaris, Novell NetWare, C++, Java, Assembly, PHP,  
MySQL, HTML, Ethernet, TCP/IP, Telnet, FTP, etc.

**SOFTWARE:** Catia V5, Zuken – Cabling Design, CA-Unicenter, WinBoard, VeriBest,  
ProModel, Cimatrix, Borland C++ Builder, Visual Studio, Auto CAD, Microchip MPLAB,  
LabView, DirectSOFT PLC, Photo Shop, Dreamweaver, etc.

## AWARDS

**ASSOC. OF WOODWORKING & FURNISHINGS SUPPLIERS 2003:** 1<sup>st</sup> Place, Furniture Design

**BYU MANUFACTURING ENGINEERING:** 1<sup>st</sup> Place, Mini Hot Air Balloon Contest.

**IDAHO JOURNALISM ASSOCIATION:** Superior award in photojournalism.

**IDAHO STATE SCIENCE COMPETITION:** 2<sup>nd</sup> place, Mousetrap Car competition.