# Richard D. Wingfield

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## EDUCATION

**University of Utah** — **Salt Lake City, UT**

**December 2004** — **Bachelor of Science**

Major: Computer Engineering
Minor: Computer Science

- Senior project team: designed and built autonomous hockey/soccer playing robot. Built from LEGO MINDSTORMS, controlled by JStamp, programmed in Java.
- Digital system design team: designed 16-bit RISC computer based on CR-16 model. Datapath, register file, and PS/2 keyboard interface designed using CAD. Controller, SDRAM interface, and VGA core designed in VHDL.
- Digital (VLSI) circuit design team: designed IEC-986 audio decoder chip. Schematic design and chip layout using Cadence and Synopsis. Simulation with Verilog and Spectre.
- Analog (VLSI) circuit design team: designed 8-bit "R-2R ladder" digital-to-analog converter. Schematic design and chip layout using Cadence.
- Web software architecture team: created automatic updating "message board" web page using servlets, JSP, HTML, cookies, MySQL, and Apache Tomcat.
- Object oriented programming.
- Assembly, C, C++.
- Circuit simulation using SPICE.
- Mathematical analysis using MATLAB.

## EMPLOYMENT

**UPS** — **Salt Lake City, UT**

**2001 – Present** — **Saturday Air Service Provider**

- Deliver premium service level shipments by guaranteed time commitment.
- SIDA security badge clearance at SLC International Airport.

**1999 – Present** — **Preload**

- Responsible for organizing 700 – 1000 packages a day, in delivery sequence order and loading 3 delivery vehicles.
- Volunteer member of Health and Safety Committee. Performed safety observations of co-workers and reviewed safe working habits.

## SERVICE

**1991-1993** — **Santiago, Dominican Republic Mission**

- Managed teams of 4 to 6 full-time volunteers during two-year ecclesiastical service.
- Analyzed teams' performance statistics.

## PERSONAL

- Enjoy Skiing, Mountain Biking, Hiking, and time with family as well as church activities.
- Spanish – Fluently able to read, write, and speak.