

James Mellott

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Experience

Vorpal Research Systems LLC — Electrical Engineer

July 2018 to Present

- PCB design and layout
Altium Design Studio
- Systems design and testing
- Optical, Analog, and Digital Systems
- Application Specific Integrated Circuit (ASIC) design and testing

UNLV Graduate Research Assistant — Research Assistant for Dr. Baker

May 2017 to Present

- Cadence CMOS design, layout, testing
C5 Process, AMS 0.35um Process
- PCB design and layout
Free PCB, DipTrace, and Altium Design Studio
- Surface mount and through hole soldering by hand and hot air
- Wire bonding

UNLV Undergraduate Research Assistant — Research Assistant for Dr. Baker

Jan 2017 to May 2017

- Cadence CMOS design, layout, testing
C5 Process, Digital and Analog ASICs
- PCB design and layout
Free PCB, DipTrace

IBEW L.U. 357 Member — Journeyman Wireman since 2011

Apr 2005 to 2013

- Service work
- Remodels, New Construction
- Lighting, Switch gear, Security, Fire Alarm, Troubleshooting

Education

University of Las Vegas Nevada — BSEE (2017)

Jan 2013 - Present
Projected Dec 2018

- Obtaining Master of Science in Electrical Engineering Degree under Dr. Baker

IBEW Apprenticeship — Electrical Apprentice

May 2006 - 2013

- On the job training
- Book Studies
- Multiple Elective Classes

Projects

- Switching Regulator Power Supply
- Non-Contact Voltage Detecting Glove with Memory
UNLV Spring 2017 Senior Design Engineering Competition Grand Prize, and Sustainability Award

References

- R. Jacob Baker, PhD, PE UNLV Electrical and Computer Engineering Professor (702)895-4125
- Robert A. Schill, PHD UNLV Electrical and Computer Engineering Professor (702)895-1526
- Angsuman Roy MSEE Freedom Photonics Electrical Engineer (702)328-3896

Testing Equipment

- Digital and Analog Multimeter, Oscilloscope, Function Generator, Power Supply, Source Meter

Computer Skills

- Excel, Word, LTspice, Matlab, Quartus, Cadence
- C++, Verilog

Hobbies

- Cars, Car electronics, Car mechanics Computers, Building Computers, Working with Computers
Home Theater, Home Improvement