Matthew Feldman

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EDUCATION

University of Florida, Gainesville, FL May 2015
Bachelor of Science in Electrical and Computer Engineering
Minor in Physics, concentration in Japanese Language
GPA: 4.0/4.0
Financed 100% of college tuition with merit-based scholarships

RESEARCH

Research Assistant, Instrumentation and Imaging Laboratory for Biomechanics January 2011 – Present
University of Florida

- Created and debugged LabVIEW programs that model the kinenatics of multi-joint mechanical arms for National Instruments' database
- Modeled a functioning Klann Linkage system with dimensions similar to those of a "StrandBeest"
- Constructed and developed software to control a pneumatic Instron tensile stress machine from basic components to be used in future engineering courses at the university

REU Researcher, Materials Research Institute June 2011 – July 2011
Pennsylvania State University

- Designed and fabricated tunable microchip coils, using CST Microwave Studio to assess model feasibility and a Vector Network Analyzers for hardware testing.
- Scanned small-scale phantoms using an MRI machine and newly-designed 600MHz microchips to improve tools available to biologists and antenna designers, with results published in yearly journal

NanoJapan REU Researcher, Ajayan Lab June 2011 – July 2011
Rice University

- Enhanced batteries and supercapacitors by creating new nanostructures and graphene coating using chemical vapor deposition
- Grew and transferred graphene samples for international collaboration projects on graphene devices

INDUSTRY

Space Florida Academy, NASA-oriented engineering program sponsored by Lockheed Martin March 2011
Cape Canaveral, FL

- Designed, constructed, and launched a weather balloon payload during the week of Spring break with numerous other engineers from Florida in order to stream images of Earth from the stratosphere
- Worked and interacted with engineers and physicists from NASA, Lockheed Martin, and United Launch Alliance throughout multiple panel discussions

Avionics Integration Engineer, Hawthorne Complex August 2011 – Present
SpaceX

- Designed harnesses for flight-critical avionics equipment on Falcon 9 and Dragon
- Compiled data on various electronic interfaces for all current and future satellite missions
- Developed and qualified proprietary avionics systems to improve safety and reliability of all future Falcon 9 and Falcon Heavy flights

ACHIEVEMENTS

Wentworth Scholar, University of Florida April 2010
Guinness World Record Holder, Fastest mile while juggling 5 objects July 2012

AFFILIATIONS

Member, IEEE Professional Engineering Society October 2010 – Present
Benton Engineering Council Representative, Gator Amateur Radio Club January 2011 – Present
Licensed Amateur Radio Technician January 2011 – Present

REFERENCES

Available upon request