Kevin Egedy

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Education

University of Washington, Seattle — Dec 2022
MS Electrical Engineering (3.8)

University of Michigan, Ann Arbor — Dec 2014
BS Electrical Engineering

Skills

Cadence Virtuoso, SpectreRF, Altium Designer, Python, HSPICE, C, C++, MATLAB, Simulink, PLECS, Bash, SQL

Projects

University of Washington 09/22-12/22
Radio Frequency Integrated Circuits
- Designed 2.4GHz WiFi receiver with focus on degenerated CS amplifier for wide bandwidth and low noise
- Characterized mixer transistors for VCO swing and LNA load differences during component integration
- Analyzed receiver model and prioritized LNA gain stage to improve system noise and linearity

University of Washington 01/22-03/22
Linear Integrated Circuits
- Designed electrode current driver with focus on gain-boosted cascode for Gohm output impedance
- Determined amplifier design from limited bias voltages and available headroom given 2.5V supply
- Balanced telescopic amplifier to achieve unconditional stability, sufficient gain, and minimal power
- Characterized PTAT current mirrors to match sink and source drivers with less than 0.11uA error

University of Washington 12/20-12/22
Advanced Robotics Club
- Designed switched-mode converter to regulate power in 2000J ultracapacitor bank and 24V DC motors
- Created simulations with nonidealities to improve controller dynamics and discover design gaps
- Led hardware team in PCB development and increased member participation and yearly projects
- Managed hardware requirements and reviewed signal conditioning handoffs with software team
- Achieved greater agility by recruiting partners for design reviews, software licenses, and career growth

Experience

AT&T 03/21-10/21
Software Engineer
- Minimized long term investment by moving on-premise apps into Azure and templating backend pipelines
- Justified internal app expenses by building website to rank costs, impact, and user engagement
- Reduced and simplified Azure infrastructure by documenting best practices and showcasing examples

AT&T 03/17-03/21
Application Developer
- Enabled new insights into traffic patterns by displaying network metrics into customizable heat maps
- Shortened time to deploy macro sites by identifying key approval stages and spending capital efficiently
- Simplified radio parameter deployment and reduced out of compliance sites for local and global policies

AT&T 01/15-03/17
Radio Access Network Engineer
- Minimized network degradation by scheduling software updates and base station equipment upgrades
- Decreased congested download traffic by tilting antennas and prioritizing sites needing additional spectrum
- Improved in-building installation process by communicating customer concerns with design engineers and verifying cell identifiers and channel performance with all parties