

# CALEB KEMERE

519 UNIVERSITY DR., MENLO PARK, CA 94025  
CELL: 240.462.7177 • HOME: 650.324.3358 • WORK: 650.724.3435  
EMAIL: CKEMERE@STANFORD.EDU

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## OBJECTIVE

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To obtain employment in wireless communications system design research and development.

## EDUCATION

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- Ph.D. in Electrical Engineering expected June 2004. Stanford University, Stanford, CA
- M.S. in Electrical Engineering, June 2000. Stanford University, Stanford, CA
- B.S. in Electrical Engineering with honors, B.A. in Economics, May 1998 University of Maryland, College Park, MD

## HONORS

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1999 California Microwave Prize (“Directive GPS Patch Antennas Using Phased Arrays”)  
Dean’s Doctoral Diversity Fellowship (Stanford University College of Engineering)  
A. James Clark School of Engineering Student Achievement Award (For Successfully Combining Proficiency in Electrical Engineering with Achievements in the Social Sciences)

## EXPERIENCE

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**Teaching Assistant** September 2000 - June 2001  
Dept. of Electrical Engineering, Stanford University Stanford, CA

- Assisted in development and first and second quarter offerings of a new DSP laboratory (EE265).
- With Prof. Teresa Meng, designed end-quarter project for students, implementation of a simplified OFDM receiver.

**Engineer Co-op** April-September 2000  
LSI Logic (né Datapath Systems) San Jose, CA

- Measured crosstalk characteristics of CAT-5 ethernet cable for application to high speed networking.
- With Dr. Sam Sheng, did preliminary system design and simulations for 10-Gb/s transmission over CAT-5 cable.

**Research Assistant** Winter 2000  
Magnetic Resonance Systems Research Laboratory Stanford, CA

- Researching methods to dampen transient response in switched resistive polarizing coils for Prepolarized MRI.

**Research Assistant** Spring, Fall 1999  
Space Systems Development Lab, Stanford University Stanford, CA

- Participated in design and prototyping for C&DH and Comm. Subsystems of Emerald and Orion (formation flying GPS guided satellites) projects; led C&DH for Emerald project. (<http://ssdl.Stanford.edu/Emerald>).

**Product Design Engineer** Summer 1999  
Glass Division, Ford Motor Company Dearborn, MI

- Realized enhanced design for on-glass tap-sensitive keyless entry system.
- Developed and built low-cost, low-weight, easily manufacturable replacement for current stone impact test device.

**Course Assistant** Fall 1998, Winter 1999  
School of Engineering, Stanford University Stanford, CA

- Tutored students in Electromagnetic Theory, Fourier Transform and Applications, and Introduction to Probability.

**Research Associate** (Term Employee) Summer 1998  
ANSER, Inc. Arlington, VA

- Modeled Solar Particle Events resulting in radiation risk during International Space Station Construction.

## ACTIVITIES

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Intervarsity Graduate Christian Fellowship  
Bass and acoustic guitars

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