

AJITHKUMAR SREEKUMAR

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OBJECTIVE

Looking for internship opportunities in Computer Systems/Architecture design/verification/performance modelling.

EDUCATION

- Master's in Computer Science** Sep. 2019 - Present
University of California, Los Angeles CGPA : N/A
- B.E. in Electronics and Communication** Aug. 2012 - Jul. 2016
R V College of Engineering CGPA : 9.32/10

SKILLS

C, C++, Python, MATLAB, SystemVerilog, SQLite, Mentor Questasim, Synopsys VCS.

EXPERIENCE

- Engineer — Arm Architecture and Technology Engineering Group** Bengaluru, India
Jul. 2016 - Sep. 2019
- Lead Coverage Model Developer for arm-v8M profile and its extensions.
 - Developed tools to automatically configure A-class Coverage Model to different implementations.
 - Improved coverage development flow in terms of early detection & root cause analysis of bugs using CI best practices.
- Intern — Arm Architecture and Technology Engineering Group** Bengaluru, India
Jun. 2015 - Jul. 2015
- Studied coverage model implementation & regression framework; explored options like Direct Programming Interface (DPI), stream mode coverage (less file I/O) to improve regression time.
 - Attained 15% reduction in memory and 10% reduction in time for regressions.

UNDERGRADUATE PROJECT

- Direction of Arrival Estimation for Lens-Based Array Antennas (Funded by Indian Naval Research Board)** Bengaluru, India
Aug. 2015 - May. 2016
- Implemented ray-tracing algorithms on MATLAB to simulate refractive effects of various dielectric lenses; modified stochastic parameter estimation algorithms (MUSIC, MVDR etc) to account for these effects.
 - Implemented adaptive beamforming algorithms in C++ to direct the beam; achieved a 6dB improvement in gain for a 4x4 array antenna with 1° resolution and 10dB SNR.

AWARDS

- Won ArmIDEAS competition: A global challenge internal to Arm for using technology to achieve UNICEF's sustainability goals. Was invited to Munich, Germany to mentor social entrepreneurs.
- Received Competent Communicator (CC) Education Award (Mar 2018) and Competent Leader (CL) Education Award (Jan 2018) from Toastmasters International.
- Runner up among 10 global teams at Arm Global Graduate Challenge-2016 for developing an IoT- based health solution on ARM Cortex-M0+ based board, Jan 2017.

PUBLICATIONS

- Sreekumar A., Kalkur P., Moiz M., "Practical Market Indicators for Algorithmic Stock Market Trading: Machine Learning Techniques and Grid Strategy", *ERCICA*, vol 906, Springer, Singapore, Sep 2019
- A. Sreekumar, M. Uttara Kumari, K.C. Vastare, S.M. Sreenivasa, N. Apoorva, "Signal Processing of Motor Imagery EEG Waves Using Empirical Mode Decomposition," *ERCICA*, pp. 197-209, Nov 2017 (Awarded Best Paper among 400+ publications)
- P. G. Shah, K.C. Vastare, X. Huang, A. Srikumar, S.M. Sreenivasa, A.P.R.M. Kumar, K.R. kodada, "Development of a Novel EEG Wave Controlled Security System", 2015 in *Proc.of IEEE Seventh (ICICIS)*, pp. 116-120, Dec 2015 (Also presented at SJCE IEEE Chapter, Mysore and won 1 st place among 50+ papers, Mar 2016)