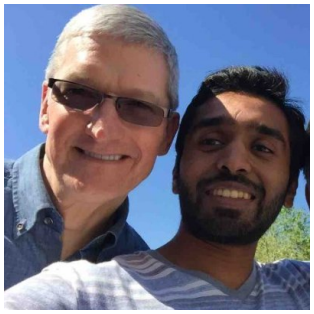


# anish menon

2nd

Software Developer at Apple (iTunes-iCloud DRM/Security)

San Francisco Bay Area | Computer Software

Current Apple
Previous Qualcomm, Compunetix
Education Carnegie Mellon University

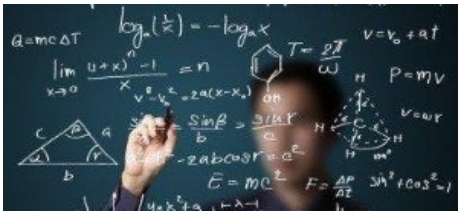
Connect | Send anish InMail

500+ connections

https://www.linkedin.com/in/anish-menon-618b283b

## Posts

Published by anish



**Is 1+1=2?**
October 22, 2015

**What is to gain?**
December 14, 2014

## Background

### Summary

I am an engineer at heart looking to develop new technologies and lead projects to commercialization

### Experience

**Software Developer**
Apple
June 2015 – Present (1 year 3 months) | Cupertino, CA

Itunes DRM engineer

**Senior Software Engineer**
Qualcomm
April 2015 – May 2015 (2 months) | Greater San Diego Area

1>Global Platform TEE(Trusted Execution Environment)

Developed Crypto modules for GP TEE based on spec requirements.
Working on meeting GP compliance for these modules

2>Hold all responsibilities from my previous title

- 1 honor or award
- 2 recommendations

## People Also Viewed

**Nikhil Jagdale**
Senior Software Systems Engineer at NVIDIA

**Sumonto Ghosh**
Software Engineer at Apple

**Sumita Rao**
Software Development Manager at Amazon Web Services

**Suresh Bollapragada**
Security, Software and Systems Engineering

**Jackson Tan**
Software Development Engineer at Amazon

**Mark Rathjen**
Privacy Software Engineer at Google

**Shantanu Goel**
Staff Engineer, ARM TrustZone Security at Qualcomm

**Chenxi Zhang**
Software Engineer at Apple Inc.

**Nicolas Beier**
Senior Embedded Software Engineer at Qualcomm

**Jayanth Mandayam**
Associate Technical Director at Broadcom

## How You're Connected

You

Raj Khanna

Ask Raj for an introduction ›

See more connections in common

anish menon

## In Common with anish

×

efficient manner, he is able to... View

technical competence and his... View

### Software Engineer at Qualcomm (Security, Device Drivers)

Qualcomm

February 2012 – March 2015 (3 years 2 months) | Greater San Diego Area

Software design and development of features for Qualcomm MSM and MDM chips(snapdragon).

System level understanding of security implementation of Qualcomm chipsets

Interact with development, test and customer engineering teams to enhance the overall feature delivery process

The main projects that I work on are,
1>Content Protection :
System level feature interaction of Multimedia, Security and Kernel
Develop solution on ARM trustzone module
Understanding on Access control mechanism in hardware

2>Crypto :
Device drivers
Enhance Software algorithms
Balance security vs performance

3>Disk Encryption
Design and enhance Keystore functionality on Qualcomm's ARM trustzone implementation for disk encryption feature

4>Qualcomm access control

5>Image Authentication and Verification

Issues tackled regularly
Cache coherency
Power collapse
Race conditions
Hardware bugs

Debugging :
Extensive system level debugging using JTAG on ARM architecture.

▸ 3 honors and awards

### Device Driver Engineer (Intern)

Compunetix

June 2011 – August 2011 (3 months) | Greater Pittsburgh Area

Device Driver Engineer

•Configured SRIO and Host Port Interface between PowerPC (8568) and DSP (TMS320C6455) to enable audio storage and playback. Achieved ten times faster data transfer on SRIO compared to historical rates in communication system division.
•Develop code to enable booting of DSP's using SRIO and HPI.
•Developed Audio frame arrangement application on DSP between FPGA and PowerPC.
•Performed profiling on Code Composer Studio to ensure handling and processing of audio in 125 Microsecond.
•Implemented SOLAFS vocoder on a single DSP for faster audio playback; and exceeded design requirements of Four DSP utilization for the task.

▾ 2 recommendations

**Chuck Brown**
Senior Design Engineer at Compunetix

Anish was hired as an intern and was placed in the Driver Team of the Software Department. In this capacity, one of a... View

**Thomas Altmeyer**
Embedded Software Manager at Compu…

Anish is a talented engineer. He is able to implement sophisticated signal processing algorithms in real world... View

**People Similar to anish**

**Anish Goyal** 2nd
Senior Software Engineer with Research inter…
Connect

Qualstar
Yongjin Kim
October 2012

Snapdragon bringup activities and support. Resolved power collapse issue and delivered several features

**Qualstar**
Handoko Gunawan
September 2012

General Snapdragon bringup support

**Qualstar**
Nagamalleswararao Ganji
June 2013

Excellent contribution for Samsung customer issue for HDMI DRM

**Qualstar**
Sumonto Ghosh
May 2015

Speedy and Quality delivery for Global Platform for Secure applications and meet Compliance

## Volunteer Experience & Causes

### Opportunities anish is looking for:

- Skills-based volunteering (pro bono consulting)

### Causes anish cares about:

- Children
- Education
- Disaster and Humanitarian Relief
- Science and Technology

## Courses

### Carnegie Mellon University

- Real time Embedded Sytems (18-648)
- fundamentals of embedded systems (18-342)
- Digital Communications (18-450)
- Digital Communication and Signal Processing Systems Design (18-551)
- Leadership for Engineers (18-603)
- Advanced Digital Signal Processing (18-792)
- Machine Learning for Signal Processing (18-797)

### Independent Coursework

- An introduction to operations management (Wharton, UPenn, coursera)
- Songwriting (berklee college of music, coursera)
- Introduction to music production (berklee college of music, coursera)
- Developing your musicianship (berklee college of music, coursera)
- Introduction to finance(university of michigan , coursera)
- Usable Security(University of Maryland college park, Coursera)
- Software security(University of Maryland college park, Coursera)
- Hardware Security(University of Maryland college park, Coursera)

Full professional proficiency Professional working proficiency

**Malayalam**
Professional working proficiency

## Skills

Top Skills

45 Embedded Systems
34 Device Drivers
33 C
31 Debugging
24 ARM
5 Secure Coding
16 C++
7 Signal Processing
11 Embedded Software
7 RTOS

anish also knows about...

4 JTAG | 7 Software Development | 4 Embedded C | 3 Cache Coherency
3 ARM security extensions | 4 Cryptography | 3 Microcontrollers
2 Assembly Language | 2 JIRA | 2 Perforce | 3 Secure Code Review
2 Testing | 5 Software Design | 2 Digital Signal... | 8 Software Engineering

See 2+

## Education

**Carnegie Mellon University**
MS (Professional), Electrical and Computer Engineering, 3.54
2010 – 2011

Specialization in Signal Processing and Embedded System

Activities and Societies: Web Relations Officer for ECE Masters Advisory Council

▸ 7 courses

**Atharva College Of Engineering**
Bachelor of Engineering, Electronics & Telecommunication, 71%, First Class with Distinction
2005 – 2009

Mumbai University

**Bhavans College**
2003 – 2005

**ISM**
1991 – 2003

## Additional Info

- **Interests**

technical : reading latest technology blogs related to embedded systems, revisiting coursera.org for new learning II extra curricular : singing, poetry, writing lyrics, music composition

## Organizations

### Additional Organizations

Masters Advisory Council

Recommendations

Received (4) Given (1)

### Senior Software Engineer
Qualcomm

**Sumonto Ghosh**
Software Engineer at Apple

“Anish has worked on a few projects managed by me. Not only does he achieve the tasks in an efficient manner, he is able to make important decisions to meet project goals. The willingness to dive into problems makes him a very valuable asset for any team. I wish him best of luck for this future endeavors.

August 10, 2015, Sumonto managed anish at Qualcomm

**Roshan Lenagala**
Firmware Engineer

“I've worked with Anish in number of projects at Qualcomm and am highly impressed by his technical competence and his analytical skills. He is well versed in his area of expertise ( Security). He is dedicated and willing to do what's necessary to get the job done. His technical competence coupled with his managerial skills makes him a valuable engineer any organization... **more**

May 27, 2015, Roshan worked with anish at Qualcomm

### Device Driver Engineer (Intern)
Compunetix

Department. In this capacity, one of a handful of tasks Anish was given was to develop the driver that would provide the means to boot a Texas Instruments DSP over an SRIO (Serial Rapid I/O) interface.

Not only did Anish quickly learn a complex interface needed to create the means to... **more**

October 15, 2014, Chuck managed anish indirectly at Compunetix



**Thomas Altmeyer**
Embedded Software Manager at Compunetix

"Anish is a talented engineer. He is able to implement sophisticated signal processing algorithms in real world applications. He has a world class engineering education and a gift for dealing with people. He can be trusted with assignments that would be a challenge for a senior engineer. He is a pleasure to work with.

October 12, 2011, Thomas managed anish at Compunetix

## Connections

**Shared (7)**

**Raj Khanna** 1st
Manager Talent Acquisition

**Dave Santos** 1st
Senior Staff Manager, Qualcomm Inc.

**Mujeeb Ahmed Mohammed** 1st
Engineer III at Qualcomm at Qualcomm I…

**Kaushik Chaubal** 1st
Technology Analyst at BlackRock



**Kunal Lillaney** 1st
Research Assistant at Johns Hopkins Un…

**Abhishek A. Sharma** 1st
Components Research at Intel Corporati…

**Dr. Y S Rao** 1st
Professor at Sardar Patel Institute of Tec…

## Groups

**Harvard Business Re…**
999,941 members
Join

**Linux kernel program…**
7,443 members
Join

**Embedded Systems D…**
24,272 members
Join

**Embedded Systems C…**
2,297 members
Join

**Embedded Systems …**
44,200 members
Join

**Qualcomm Alumni Ne…**
1,255 members
Join

**Embedded Systems P…**
18,609 members
Join

See 3 more

## Following

### Influencers

**Jeff Weiner**
CEO at LinkedIn
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**Narendra Modi**
Prime Minister of...
Follow

**Tim Brown**
CEO at IDEO
Follow

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## Companies

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Internet
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**Motorola**
Consumer Electronics
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**Cisco**
Computer Networking
Follow

**Ericsson**
Information Technology and Services
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**VMware**
Computer Software
Following

**The MathWorks**
Computer Software
Following

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## Schools

**Carnegie Mellon Univ...**
Greater Pittsburgh Area
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India
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**Bhavans College**
India
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