

## Yuxiang (Ethan) Wang

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<http://ethanxyz.com/>

### SUMMARY STATEMENT

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Responsible self-starter with a hands-on mentality and lab experience graduating from UCSB in Computer Engineering. Worked on projects with diverse teams to solve problems through innovation.

### PROGRAMMING EXPERIENCE

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- *Languages:*  
C/C++, C#, Java, Python, Matlab, Ruby, HTML5, CSS, Verilog/System Verilog
- *Platforms and IDEs:*  
Bash script, Unix, Windows, Git, GitHub, Eclipse, Android Studio, Visual Studio, Processing

### EDUCATION

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University of California, Santa Barbara (UCSB)

**B.S. Computer Engineering**

**September 2013 - June 2017**

- *Computer Science:*  
Distributed System (in progress), Android Development (in progress), Database, Computer Vision and Multimedia, Networking, Operating System, Automated Testing, Application Programming
- *Computer Engineering:*  
Embedded System Design, Sensor and Peripheral Interface Design, Computer Architecture, Digital Circuit Design, Linear Circuit Design

### PROJECTS

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- **Interactive AR Interface for Healthcare Robot** | Repository Unlisted Due to NDA  
Worked in a team to build an AR interface for a remote healthcare robot. Project includes an object classifier using machine learning, Java/Processing based robot control, and interactive graphic overlay. Responsible for designing and implementing framework, UDP connection, graphical user interface, and robot control.
- **Social Network Database Management Program** | <https://github.com/ethanyuwang/Buzmo>  
Built a Facebook-like application that allows chats and microblog posts with SQL in Java. It also provides a manager interface for intuitive daily usage analysis.
- **Side-Scroll Game** | <https://github.com/ethanyuwang/cs56-games-country-runner>  
Significantly improved an existing Java side-scroll game. Took charge of troubleshooting, adding new difficulty levels and playable features, and version control on GitHub.
- **Multipath TCP** | <https://github.com/ethanyuwang/MultiPathTCP>  
Implemented a Linux kernel based TCP that uses more than one path between client and server for a wider bandwidth.
- **Wireless Robotic Insect** | <https://github.com/ethanyuwang/Wireless-Robotic-Insect>  
Designed and built an embedded system for robotic insect with support for Bluetooth control. Robotic insect is controlled through a LPCXpresso microcontroller.

### EXPERIENCE

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**Research Assistant, UCSB Retina Lab**

**July – December 2016**

- Responsible for image processing, writing new tools for image related processing, and software maintenance and updating.
- Experience: Java, Python, RStudio, OpenCV, Photoshop, Fiji