

# Zhixian Huang

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## SUMMARY

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- Staff Software Development Engineer in Fortinet Inc.
- Strong experience on Unix/Linux OS development.
- Familiar with Computer Networking, Computer Security, Computer Architecture, Embedded Systems, Robotics.
- Language: C/C++, Python, Shell Script.

## EMPLOYMENT

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|---|-------------------|
| Staff Software Development Engineer<br>Fortinet Inc., Sunnyvale, California   | 04/2022 - present |
| <ul style="list-style-type: none"><li>• Develop FortiOS for the Next Generation Firewall (NGFW).</li><li>• Lead on bringing up new products.</li><li>• Tune up system performance and enforce system security for FortiGate.</li></ul>  |                   |
| Software Engineer<br>Juniper Networks Inc., Sunnyvale, California   | 02/2018 - 04/2022 |
| <ul style="list-style-type: none"><li>• Contribute system level features and supports on enterprise networking devices in the platform team.</li><li>• Lead six mini projects across four new products, including SRX-SPC3, SRX-RE3 and ACX7100.</li><li>• Involve in expertise of device firmware, system resiliency and hardware diagnostics.</li></ul> |                   |
| Embedded Systems Engineer<br>Rufus Labs Inc., Los Angeles, California   | 05/2015 - 02/2018 |
| Research & Development Engineer<br>Shenzhen MinDe Electronics Technology Ltd., Shenzhen, China  | 10/2013 - 06/2014 |

## PROJECTS

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- Single Foot Balance of Humanoid Robot
- Achieved balancing task on a humanoid robot with 25 Degrees of Freedom.
  - Implemented code of trajectory planning, inverse kinematics, PID controller and Kalman filter.
  - Fine-tuned the robot to step in place continuously and smoothly.
- Weenix Operating System Kernel Implementation
- Developed a primitive kernel for a UNIX-like operating system.
  - Wrote major components including process & thread, virtual file system, and virtual memory.
  - Realized running multiple applications concurrently on this system.

## EDUCATION

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| M.S. in Electrical Engineering (GPA: 3.60/4.0)<br>University of Southern California, Viterbi School of Engineering | 08/2014 - 05/2016 |
| B.E. in Telecommunications Engineering (GPA: 3.67/4.0)<br>Shenzhen University, College of Information Engineering  | 09/2009 - 07/2013 |