Jacob **Holtom**

ELECTRICAL ENGINEER · SYSTEMS ADMINISTRATOR

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Summary

I'm interested in space, radio communications and anything involving electricity. I also work on cars and build (occasionally) fast ones. I love to fix whatever people hand me. I began my professional life as a programmer and systems administrator and then moved on to engineering.

Work Experience

BYU Spacecraft Group   *Provo, Utah*

LEAD COMMUNICATIONS ENGINEER   *Jan. 2016 - PRESENT*

- Implemented RESTful API server for car rental booking application(CARPLAT in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, Cloud-Front, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Korea.

R.O.K Cyber Command, MND   *Provo, Utah*

ASSISTANT SYSTEMS ADMINISTRATOR   *Aug. 2014 - Apr. 2016*

- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.
- Implemented a distributed web stress test tool with high anonymity.
- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.

SolvereOne   *Seoul, S.Korea & LA, U.S.A*

SYSTEMS ADMINISTRATOR   *Jan. 2013 - Feb. 2013*

- Developed in Cocos2d-x an action puzzle game(Dragon Buster) targeting U.S. market.
- Implemented API server which is communicating with game client and In-App Store, along with two other team members who wrote the game logic and designed game graphics.
- Won the 2nd prize in final evaluation.

Education

BYU (Brigham Young University)   *Provo, Utah*

B.S. IN ELECTRICAL ENGINEERING   *Sept. 2015 - Exp. Apr. 2019*

- Lead Communications Engineer on BYU's first small satellite mission

TJHSST (Thomas Jefferson High School for Science and Technology)   *Arlington, Virginia*

HIGH SCHOOL DIPLOMA   *Sept. 2011 - Apr. 2015*

- Completed Senior Research designing NFC systems