Benjamin Jensen

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EDUCATION

Electrical Engineering (BS)

Brigham Young University

- 3.97 GPA, Awarded: Heritage Academic Scholarship
- Organizations: Eta Kappa Nu, Tau Beta Pi, Presidents Leadership Council Student Mentorship Program *Capstone Project:* Designing an unmanned aerial system to compete in the AUVSI SUAS competition.

С	C++	Matlab	Python	Flutter	Pytorch
OpenCV	Git	Tensorflow	Linux	LTSpice	Arabic
EXPERIENCE	8				
Research Assis BYU Department • Research • Participa students	tant of Electrical and physical-layer so te in Chip Camp, to get them exci	<i>Computer Engineering</i> ecurity coding and vehi an outreach program t ted about STEM	ુ icle-to-vehicle con that works with hu	nmunications Indreds of middle a	Mar. 2018 - Present Provo, UT and high school
Program Direct Utah Underwater Coordina Organize	tor <i>Robotics</i> ate one of the lar a yearly compet nicate with more	gest underwater robot ition for over 700 mido than a dozen teachers	ics competitions in fle school student to keep the stude	n the state of Utah s nts on track	Apr. 2018 - Present Provo, UT
Waiter MBK Senior Livin • Worked • Aided re	<i>ig</i> with a small tean sidents unable to	n to ensure all resident) feed themselves	s were provided w	A vith food suitable to	pr. 2013 – Aug. 2014 Cedar Hills, UT o their dietary needs
LEADERSHIP Leadership Co BYU Mechatronic • Helped r • Train stu • Supervis	uncil Member ess Club estart the club af dents how to des e 10-30 students	ter it had been inactive sign, construct, and pro in bi-weekly meetings	e for a year ogram small robot	ics projects	Apr. 2018 - Present Provo, UT
 Full-Time Volunteer Representative The Church of Jesus Christ of Latter-Day Saints Set goals and made plans in regular leadership council meetings to aid overall p Planned and conducted training meetings for 6-16 fellow volunteers ages 18-29 Communicated with local leadership in weekly and monthly meetings to report 					<i>June 2015 - June 2017</i> <i>San Diego, CA</i> ctivity ress and reevaluate
Service Commi Cedar Hills Youth	ittee Chair a City Council			A	Apr. 2013 – May 2014 Cedar Hills, UT

- Organized activities for the city youth, including an Easter-egg hunt and a sub-for-Santa event
- Coordinated and participated in various fundraising activities

PUBLICATIONS

Spring 2020 Provo, UT

- M. Rice, B. Clark, D. Flanary, B. Jensen, N. Nelson, K. Norman, E. Perrins, W. K. Harrison, "Physical-Layer Security for Vehicle-to-Everything Networks," *IEEE Vehicular Technology Magazine*, submitted July 1, 2019 (Under Review).
- [2] M. Rice, W. Harrison, B. Jensen, K. Norman, B. Wood, C. A. Gutiérrez, "V2V Propagation in Mountainous Terrain: Part I—Experimental Configuration and Measurement Results," *LatinCom 2019 IEEE Latin-American Conference on Communications (LatinCom)*, Salvador, Bahia, 2019.
- [3] K. Norman, B. Jensen, M. Rice, W. K. Harrison, "Doppler Power Spectra From Vehicle-To-Everything Propagation Experiments," *ITC 2019 IEEE International Telemetering Conference* (*ITC*), Las Vegas, Nevada, 2019.
- [4] D. Flanary, B. Jensen, B. Clark, K. Norman, N. Nelson, M. Rice, W. K. Harrison, "Manufacturing an Erasure Wiretap Channel from Channel Sounding Measurements," *ISIT 2019 IEEE International Symposium on Information Theory (ISIT)*, Paris, France, 2019.
- [5] B. Jensen, B. Clark, D. Flanary, K. Norman, M. Rice and W. K. Harrison, "Physical-Layer Security: Does it Work in a Real Environment?," *ICC 2019 - 2019 IEEE International Conference on Communications (ICC)*, Shanghai, China, 2019, pp. 1-7. *Presented the paper in Shanghai, China.*

Sep. 2018 – Dec. 2018

Jan. 2019 – Apr. 2019

Jan. 2019 – Apr. 2019

Jan. 2019 – Apr. 2019

PROJECTS

Remote-Control Car

- Designed a board using autoCAD software
- Implemented code for the controller to be used over a smartphone app

Maze-Solving Robot

Used an Arduino and rangefinders to detect walls of a wooden maze

• Raced other robots to solve the maze in the shortest time

Laser Tag

- Designed a fully functional laser tag system, comprising an analog receiver and filters implemented in C for the receiver
- Programmed an Arduino to act as a "home base" by emitting a specific frequency

Self-Driving Car

• Worked in a small team to program an RC car to detect and follow lanes, avoid obstacles, and function in a miniature city alongside other autonomous vehicles using an Intel Realsense camera and OpenCV