

# GILBERTO ROBLES

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San Diego, CA

## EDUCATION

University of California, San Diego – La Jolla, CA

*Expected in 06/2022*

**Bachelor of Science:** Cognitive Science: Machine Learning & Neural Computation

## PROFESSIONAL SUMMARY

Experience in 4+ years of implementing data science & machine learning methods. Proficient in Python, writing supervised and unsupervised algorithms from scratch, as well as neural networks with TF/Keras. I have hands-on experience with intelligent autonomous robotics, brain-computer interfaces, and mobile app deployment. I have an interest for business-driven applications of data analytics and modeling.

## SKILLS

- Python, scikit-learn, TensorFlow, Keras
- Classification, Clustering, PCA, Neural Networks
- Custom TF/Keras Models and Layers
- JMP Pro (Predictive Analytics & Modeling)
- A/B Testing
- Data Visualization, Excel, Business Analytics
- 3D Printing Expertise (SLA, FDM)
- Mechanical (CAD)
- Arduino, Raspberry Pi (Proficient)
- React Native & Node App Deployment

## PROJECTS & EXPERIENCE

**Robles Projects** | Creator – San Diego, CA

*09/2018 - Current*

I have designed from scratch and developed fully functioning IoT projects: visual-recognition autonomous rover, a wireless glove-controlled robotic arm, an electric bicycle, an augmented reality smart-glasses prototype, etc.

**Java Programmer** | Rocket Propulsion Lab – UC San Diego

*09/2018 - 02/2019*

Student organization at UCSD with the mission of putting a rocket in space. My contribution was in developing software for the Avionics Team, in charge of establishing telemetry between the rocket's valves and sensors to the computers in base.

**Robles 3D Printing** | Personal Business – San Diego, CA

*08/2020 - Current*

Small personal business. I sell 3D prints, from supplying large scale models to business in San Diego in the construction industry, to figurines advertised on Instagram and Etsy.

**SHPE Representative** | Microsoft – Phoenix, AZ

*10/2019 - 11/2019*

Fully paid internship and trip to Phoenix, Arizona to represent UC San Diego and Microsoft as a Hispanic engineer in STEM, at the SHPE National Convention in 2019.

**Team Lead / Hackathon Committee Member** | Society of Hispanic Professional Engineers – UC San Diego

*09/2018 – Current*

I developed leadership and project-planning skills by co-directing a coding team in Python. The goal of this role was to develop software challenges for other students on campus to further their technical skills. I had a similar role in planning and coordinating under a similar committee for the Rising Engineers Advanced Challenge, an organization devoted to exposing first-gen Latino students like myself, to engineer challenges.

## RELEVANT COURSEWORK

- Supervised Machine Learning Algorithms
- Unsupervised Machine Learning Algorithms
- Data Science in Practice
- Introduction to Probability for Data Science
- Linear Algebra
- Business Analytics
- Data Science Bootcamp
- React Native: Fundamentals & Advance