Yesus Yahel Becerril Hernández

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Education

B.S. Digital Systems and Robotics Engineering   *AUG 14 – Present*
- *Instituto Tecnológico de Estudios Superiores de Monterrey*
- *GPA: 91/100 → 3.7/4*
- *Expected graduation date: December 2019.*

Professional Experience

AiServe – Computer Vision Software Engineer Intern – Berlin, Germany   *JAN 19 – MAY 19*

- *Developed a wearable device based in Computer Vision and A.I., to assist visually impaired people.*
- *With visual data the device seeks to be capable of give audio feedback about the users' environment, in addition to Navigation Instructions and assistance in case of an Emergency.*
- *AWS, Python, Tensorflow, Flask, Numpy, React Native, Expo, Version Contol.*

Carnegie Mellon University – Research Intern – Pittsburgh, USA   *JUN 18 – AUG 18*

- *Constructed a map and human driving dataset from a Birds-Eye View Video, by using Deep Learning and Computer Vision techniques.*
- *Worked in Python with Keras Framework. CNN's used: FCN 8s-32s, VGG16, U-NET.*

Tec de Monterrey – InnovAction Gym – Hw Engineer   *FEB 18 – MAR 18*

- *Project to improve performance in a "Wearable" prototype for sensing temperature.*
- *Reduced the hardware noise signals by 80% by redesigning and adding new hardware.*
- *Project made with thermistor sensors and Arduino.*

Ternium – "Co-Op Program, Design of Smart Devices using IoT"   *AUG 17 – DEC 17*

- *Construction of a geolocator device.*
- *Achieved an error range of less than 4 meters, by using CMX Cisco Controller and Arduinos WIFI module ESP 12 -E.*

Extracurricular Activities

VantTec – Team Leader – "AI & Computer Vision"   *AUG 18 – DEC 18*
- *Developed an U.A.V. by using techniques of AI and C.V., such as CNNs (YoloV3 - Darknet), SVMs (Scikit-learn package - Python) and OpenCV.*

I-CTEC – Instructor in "4Mexico" program   *JAN 17 – AUG 17*
- *Taught robotics and programming to a group of 30 high school students.*

AIESEC
- *– "Global Citizen" Project in Medellín, Colombia*   *DEC 14 – JAN 15*
  - *Campaign to raise awareness in vulnerable areas to promote leadership.*
- *– Team Leader Incoming Global Volunteer*   *AUG 17 – JAN 18*
  - *Cooperation with 4 countries to receive volunteers in Monterrey.*
  - *Creation of 3 social projects with 2 NGOs of the region.*
  - **Growth from 10 to almost 40 Social Exchanges.**

Skills

– Languages: *Most experienced with: Python, Assembly. Some experience with: C++, C, JavaScript. Dabbled in JAVA, HTML5, CSS, JQuery.*

– Software: *MATLAB, LabVIEW, KiCad.*

– Hardware: *Circuit Analysis, Advanced electronics, Microcontrollers, Embedded Systems, VHDL.*

Languages
- **English:** *Proficient.* **Spanish:** *Native.* **French:** *Basic.* **German:** *Basic.*