

ADRIÁN CRUZ RAMOS

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EDUCATION

THE UNIVERSITY OF TEXAS AT AUSTIN, McCombs School of Business, Austin, TX
Master of Science in Technology Commercialization (MSTC)

May 2018

THE UNIVERSITY OF TEXAS AT SAN ANTONIO, College of Engineering, San Antonio, TX
Bachelor of Science in Biomedical Engineering

May 2016

- GPA: 3.67 - Cum Laude

EXPERIENCE

Kalmar Rough Terrain Center, San Antonio, TX

2017 – Present

Rough terrain mobile equipment solutions for the DoD and the commercial market.

Quality Assurance Manager

- Acting project manager for a group of four technicians to ensure quality compliance and provide R&D oversight to assure the company uses sound scientific product development and design practices.
- Oversee continuous improvement program and manage the documentation and implementation of projects within the program.
- Keep management team abreast of significant issues or developments identified during quality activities and actions being taken to improve the situation.
- Apply statistical process control methods for analyzing data to evaluate current process and process changes.
- Implemented ISO 9001 knowledge to effectively communicate quality policies, identify risks and areas of opportunity, and operational plans.
- Plan and oversee the analysis, inspection, test, and integration to assure the quality of assigned product or component.
- Provide formal weekly and monthly updates on the status of the ongoing projects and action items to the company's president.
- Lead the ISO9001:2008 recertification and ISO9001:2015 transition program by successfully implementing the company's internal audit plan, and addressing previous nonconforming practices.

Checkups LLC, San, TX

2016 – 2017

Mobile app and web platform for client tracking and management dedicated to improve bail bond turnaround and county's law enforcement.

Business Development Lead

- Lead a group of five biomedical engineering students on a project called "Cappell-O2"; an infant monitoring device capable of sensing sleeping positions, heart rate, calculate blood oxygen levels, and display the information on a mobile device via Bluetooth.
- Researched and compiled relevant information in regards to the market opportunity, product viability, manufacturing costs, patent infringement, etc. to successfully write a competent business plan and presented as a "Pitch Deck" to judges, and possible investors.
- Organized and participated on every step of the project; design, coding, assembly, and testing were done in collaboration as a team and with the guidance of an expert in medical devices (Dr. Morton – Lecturer III at UTSA).
- Delivered a fully functional proof of concept prototype.

BabyButton, Austin, TX

2015 – 2017

Smart monitoring device capable of analyzing an infant's vital signs and provide relevant real time feedback to parents.

CEO & Founder

- Lead BabyButton's executive team to build and design an infant monitoring device with a machine learning suite capable of sensing and analyzing sleeping positions, heart rate, calculate blood oxygen levels, and display the information on a mobile device via Bluetooth.
- Researched and compiled relevant information in regards to the market opportunity, product viability, manufacturing costs, patent infringement, etc. to create a competent business plan and model.
- Organized and participated on every step of the project; design, coding, assembly, and testing were done in collaboration as a team and with the guidance of an expert in medical devices.
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QUIBIM/Hospital Universitari i Politècnic La Fe – Angel Alberich-Bayarri PhD, Valencia, Spain

Start-up that provides advanced computational models to radiological images to measure changes produced by abnormal condition in the body.

Summer 2015

Imaging Engineering Intern

- Extensively coded on LINUX, MATLAB, and FreeSurfer to create an analysis computational tool with remote access between hospital servers for better CT image acquisition providing neurologists better analysis results on Alzheimer patients.
- Calculated and analyzed gray and white matter loss (on a period of 3 months) of over 80 patients with possible early stage Alzheimer disease to understand how hard was for doctors to spot any changes by only referencing CT images.
- Developed monthly reports and a final period presentation with results and observations addressing the benefits neurologists obtained by using the efficient and more accurate brain analysis tool.

ADDITIONAL

- **Current member of:** The National Society of Leadership and Success, PHI KAPPA PHI – Honors Society, TAU BETA PI - The Engineering Honors Society: Texas MU Chapter, Admissions Ambassador of the MSTC Program.
- **Laboratory Skills:** Tensile Testing, Compression Testing, 3-D Printing, Nanomaterial Synthesis, UV-VIS Spectrophotometry, Bright field/Phase Contrast Microscopy, Differential Centrifugation, Protein Analysis (BCA), Cell Adhesion Assays/Viability, Mammalian Cell Culture.
- **Six Sigma:** College courses covered material over green and yellow belt management techniques.
- **Computer Skills:** MATLAB, JavaScript (Beginner), COMSOL, Excel, SolidWorks (Intermediate), Microsoft Office (Word, Excel & PowerPoint).
- **Languages:** Spanish (Native); English (Fluent); French (Fluent); German (Intermediate); Italian (Intermediate)
- **Hobbies:** Photography, food enthusiast, poetry, fútbol, modern art.
- **Social Service:** Voluntary work on STEM programs for elementary and high schools in San Antonio.
- **Work Eligibility:** Eligible to work in the United States under NAFTA and OPT; will require visa sponsorship after three years under TN visa or one year under OPT permit.