Marlon Agno

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WORK EXPERIENCE

L.J. Gonzer Associates | IBM Research **March 2017 – Feb. 2019**
Research Engineer *Yorktown Heights, NY*

- Contribute to research and development of multiple ongoing projects involving the innovation and design of novel products, components, and solutions for the wearable healthcare device industry. Projects largely consist of electronic packaging solutions and printing of electronic components and sensors.
- Utilize advanced tools and various lab procedures required for prototype building, characterization, and evaluation.
- Provide quality assurance of ingoing and outgoing components through process logging and inspection to report throughout the project.
- Assist in process development and optimization involving experimental design.
- Design and develop printed prototype sensors and electrical components for a variety of applications.
- Perform process troubleshooting and failure analysis of components through methods from materials evaluation and characterization of components to thermal analysis.
- Contributor to a journal paper and two pending patents.

Keystone Education Services **Oct. 2016 – March 2017**
Upper Level Math/Chemistry Tutor *Virginia Beach, VA*

- Fulfill one-on-one tutoring services for students in the Tidewater area and assess individualized student needs levels to develop effective, personalized lesson plans. Work is predominately in BC Calculus (Calculus I & II).

EDUCATION

Virginia Tech **May 2016**
BS Materials Science and Engineering, Minor in Chemistry *Blacksburg, VA*

NOTEWORTHY CLASS PROJECTS

- *Senior Design Project – "Physical Aging of Semicrystalline Polymers above the Glass Transition Temperature"*
  - Tested a theoretical model of physical aging in a class of polymers that did not have prior literature regarding this model. Prepared and tested many PVC samples with various plasticizer contents to model thermodynamic behavior. Prepared and presented in an academic paper format.
- *Class: Physical Ceramics – Company Startup Design Project* ***(1st Place Winner)***
  - Developed an innovative product and developed a comprehensive business/manufacturing plan to pitch to a panel of professors

TECHNICAL SKILLS

- **Software Experience:** SolidWorks, AutoCAD, Mathematica, MATLAB, Microsoft Excel, JMP Statistical Software, CES Granta
- **Materials characterization** (DSC, DMTA, TGA, Digital Microscopes, Instron Testing)
- Research and development, technical writing, experimental design, ANOVA, pick and place systems, process logging, laser cutting tools, printing of electronic components, prototype building, electrical testing, wet lab procedures, high dexterity manual procedures

SOFT SKILLS

- Highly adaptable, can work in both collaborative and independent environments, strong verbal and written communication skills, technical communicator/translator, creative problem solving, critical thinking, organized, dependable, friendly