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JONATHAN ALCALA **SENIOR TECHNOLOGIST**

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Mr. Alcala specializes in non-destructive failure analysis and quality control in a wide range of industries, including aerospace, automotive, and additive manufacturing, utilizing X-ray and CT methodologies.

Prior to joining ESi, Mr. Alcala worked as a CT technician, and CT application engineer where he performed inspections on parts from industries including medical, consumer goods, automotive, and aerospace in a wide range of materials including aluminum alloys, titanium alloys, plastics, stainless steels, and Inconel. While working for an industrial CT manufacturer, he oversaw the regulatory compliance of new radiation-producing equipment in accordance with FDA guidelines, and obtained certification to train operators in the basics of coordinate measurement using contact and non-contact CMMs (Coordinate Measurement Machine). He also led the installation and registration of radiation-producing equipment in various states according to local and state regulations.

Mr. Alcala also has broad experience involving maintenance of mechanical and electrical systems as an airframe mechanic in the U.S. Marines, machine operator for a carbon composites manufacturer, and a lifelong automotive hobbyist. During his career, Mr. Alcala has also gained knowledge in reading electrical schematics, repair of pneumatic components, and carbon composite construction/repair. In addition, he has knowledge in managing health and safety, having worked as radiation safety officer, hazardous material safety program manager, and has completed his OSHA 30 Hour Safety certification.

Areas of Specialization

Computed Tomography (CT)
X-Ray with Digital Image Analysis
Additive Manufacturing
Remote Inspections

Education

A.A.S., Mechanical Engineering Technology, Central Piedmont Community College, 2018
B.S., Exercise Science, University of North Carolina at Charlotte, 2015



Positions Held

Engineering Systems Inc., Dallas, TX

Senior Technologist, 2020 – Present

Keselowski Advanced Manufacturing, Statesville, NC

Industrial CT Technician and Radiation Safety Officer, 2020

GOM Americas Inc., Charlotte, NC

Industrial CT Application Engineer, 2017 – 2020

Crawford Composites, Charlotte, NC

Industrial Machine Operator, 2017

Debotech, Charlotte, NC

Industrial Machine Operator, 2016