Abstract: *What is your product / service, Who is your customer, and Why would they buy it?*

This project proposes a web interface for analyzing data collected from the Olympus Handheld XRF. Handheld XRF analyzers provide fast, easy, accurate and non-destructive alloy identification and elemental analysis from Mg to U. Applications include, Metal alloy identification for quality control, PMI and scrap sorting, geochemistry for mining exploration and grade control, Hazardous elements screening for environmental, consumer goods and RoHS testing, and precious metals analysis.

Currently, there is no automatic data analysis which allows analysts to visualize insights/patterns of the data on the field (they have to bring them back to the lab for further analysis which is time consuming). The proposed web interface works on any smart devices which has a browser, wirelessly connects to XRF gun, visually displays the results on the web interface, and alarms human-errors during the data collection process for immediate corrections.

Please take a moment to tell us briefly why your team has applied to this program and what you hope to learn

We would like to develop entrepreneurial skills, validate our business model through customer interviews, and apply for $50,000 I-Corps team grant which allow us to implement our web prototype to fit customers/analysts’ needs