**ecoATM** has set out to forever alter the wasteful lifecycle of consumer electronics by automating the inspection and buy-back of these devices directly from consumers. ecoATM’s revolutionary eCycling stations (reminiscent of an ATM machine) provides cash to consumers for their used electronics by simply placing it in the ecoATM for automated inspection and testing. Working or not, the consumer will be offered compensation based on its market value. Cash is dispensed on the spot by the ecoATM. If the device has no remaining value, ecoATM will offer to recycle the device or accessory using the best environmental practices and processes possible.

With over 150 million phones alone sold per year in the U.S., the existing take-back solutions were not functional for that problem alone, which resulted in most used phones going into drawers or landfills. ecoATM’s solution targets mobile phones and accessories first and is in the process of transforming eWaste to the benefit of consumers, retailers and the environment alike. For more information, please visit our website at [www.ecoatm.com](http://www.ecoatm.com). We are currently seeking a Computer Vision and Robotics Software Engineer to join our team in San Diego, CA.

**Software Engineer – Computer Vision and Robotics**

**Responsibilities:**

* Develop and refine visual and mechanical capabilities of ecoATM kiosks
* Perform data analysis and machine learning tasks such as prototyping new algorithms, performing experiments, and collecting data to determine accuracy rates
* Develop tools and scripts to quickly analyze large amounts of data to collect statistics, determine performance, and prioritize areas for improvement
* Develop automated tests to check hardware status of kiosks, perform self-calibrations, determine performance parameters, and support factory automation to speed kiosk build time
* Increase reliability by investigating visual and mechanical kiosk malfunctions, analyzing log files and operations to determine root cause, and quickly developing solutions to increase robustness
* Develop alerting mechanisms to flag kiosk malfunctions, reliability issues, or suspicious activity
* Assist with a variety of fraud prevention techniques
* Parallelize machine vision and motion control code to improve execution time
* Develop user friendly tools for operations team to diagnose and fix kiosk issues without engineering involvement
* Support manufacturing operations by developing and maintaining factory automation test tools, determining test coverage, filling in gaps, and logging results
* Developing, testing, and deploying well-architected, well-documented, high-quality code in a very fast-paced environment, with release cycles of days, not months

**Qualifications:**

* Bachelor’s or higher degree in Electrical/Computer Engineering, Computer Science, or equivalent
* Systems integration experience, ability to comprehend and integrate a large variety of technology into a manageable system
* Mechanical aptitude, including motor controller concepts, such as limits switches, stepper motors, servo motors, homing sequences, encoder feedback, optical sensors
* Image processing and machine learning experience
* Understanding of statistics and machine learning performance metrics
* LabVIEW Programming experience, or the ability to learn new languages quickly
* Low-level motor controller or microcontroller programming experience
* Experience in an Agile development environment
* Experience using MS SQL Server or equivalent
* Excellent problem-solving skills; must be an “outside the box” thinker
* Excellent communication skills
* Must thrive in a fast-paced entrepreneurial environment
* An intense desire to be part of a cutting edge, fast-paced company
* Must be self-motivated and have the ability to work independently with minimal direction and supervision

**Benefits:**   
We value our employees’ time and efforts. Our commitment to your success is enhanced by our competitive compensation and extensive benefits package including medical, dental and vision benefits, generous stock options and future growth opportunities within the company. Plus, we work to maintain the best possible environment for our employees where people can learn and grow with the company. We strive to provide a collaborative, creative environment where each person feels encouraged to contribute to our processes, decisions, planning and culture.

**To Apply:** Please submit resume to: <https://insperity.ats.hrsmart.com/cgi-bin/a/highlightjob.cgi?jobid=70792>