



January 2019

Job Description for Mechatronics Intern

Location: Chicago, IL

Who we are:

At Tanvas, our mission is to make your interactions with touchscreens more interesting, more natural, and more engaging. We have developed a novel haptic touchscreen technology that not only tracks the fingertips, but controls what they feel: textures, edges, collisions, and even the illusion of shape on a featureless glass panel. We are developing an extensive set of tools that developers can use to paint haptics to the screen, when and where they want, and to integrate haptics tightly with graphics and audio. We are developing applications in numerous markets including automotive, advertising, entertainment, and consumer electronics.

The Job:

We are looking for a Mechatronics Intern who can support the core hardware development team and who can take on a project aimed demonstrating an advanced application of the TanvasTouch technology. In the former role, the intern will be responsible for designing and performing tests as well as collecting and analyzing data that shed light on core performance as well as reliability, safety and other regulatory concerns. In the latter role, the intern will be responsible for designing, fabricating and debugging a demonstrator that combines TanvasTouch with at least one other form of advance human-machine interface technology. This role is intended for college students who have completed at least their junior year, or those just getting out of college.

What you will do:

- Design, fabricate, test and debug mechatronic systems
- Spec actuators such as piezoelectric devices
- Spec sensors such as Hall effect or strain gages
- Write real-time C code for PIC32 microcontrollers
- Design basic analog and digital electronic circuits
- Use test equipment such as oscilloscopes and spectrum analyzers
- Write Python code for control of instrumentation and analysis of data
- Optionally use CAD programs (e.g. Solidworks, AutoCAD) to design mechanical components
- Optionally use laser cutters, RP machines and machine tools to fabricate mechanical components

What you will need:

- Mechatronics background
- Excellent written and verbal communication
- Demonstrated ability to perform hands-on engineering projects
- Your own laptop

Tanvas

HOW TO APPLY:

Email your resume to jobs@tanvas.co

Note: You must have valid U.S. work authorization