# UNIVERSITY OF LOUISIANA AT LAFAYETTE

## STEP Committee

## Technology Fee Application

**Digital Sketching**
Title

**Adam Feld**
Name of Submitter
*(Faculty or Staff Only)*

## College of the Arts
Organization

| Title: | Digital Sketching | | Date: | 7/16/2018 |
|---|---|---|---|---|
| Name (Contact Person): | | Adam Feld | | |
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| Department/College/Org: | | School of Architecture and Design | | |

**ABSTRACT (250 words or less):**

Digital sketching is becoming an increasingly important skill for students entering the workforce. This request is to purchase 18 interactive pen displays for the establishment of digital sketching capabilities within the Industrial Design Program. Historically these interactive displays were cost prohibitive and difficult to implement in a classroom due to specialized proprietary software, specific computer operating system requirements, and accessories that had to be purchased

separately. Recently the cost has reduced due to competition in the market but the quality has elevated. The Cintiq Interactive Pen Display has incorporated, into the cost, the accessories reducing the need for additional purchases. The new equipment will allow students to incorporate computer-based, digital sketching into the process of product development. These will not replace traditional hand sketching, but rather, integrate digital sketching to make students competitive in the professional market. In addition, the displays can also be used for 3D modeling. These interactive displays can seamlessly be incorporated into the curriculum, as there already are assignments that would be enhanced by their use.

**a.** **Purpose of Grant and Impact to Student Body as a Whole**

The purpose of this request is to provide 17 Interactive Pen Displays for Industrial Design students to develop their designs in digital format (both two-dimensionally as well as three-dimensionally), to broaden their scope of work, as well as prepare them for the tools that are becoming the industry standard. The use of these displays is to expedite the workflow in the development of a product. Designers use these displays to sketch and hand render (give value by adding color, shading, and material representation) products for client meetings. This display can also be used for 3D modeling programs.

Since the Spring Semester 2014, there has been an average of 17 students in the third year Industrial Design class sequence (INDN 301 and INDN 302). Seventeen students plus one, for the professor, equals the 18 requested displays. Currently, the third year Industrial Design class has an assignment, each semester; to hand and digitally render their designs from the studio project. These interactive displays will not eliminate the traditional designing skillset but rather build upon it to allow students to push their designs further by having the ability to experiment without the need to fully recreate every new idea.

The introduction of the Cintiq 13"HD Interactive Pen Displays will help UL Lafayette and the Industrial Design Program maintain its standards of excellence by providing students and faculty with current and viable technologies. The spirit of progression and expression, that the infusion these bring, will keep our Industrial Design program cutting edge and attractive to potential students and future employers. The ability for faculty to teach traditional approaches while integrating evolving concepts and technologies falls in line with the spirit and letter of the university and College of the Arts mission statements.

**b.** **Projected Lifetime of Enhancement**
   i. The interactive displays requested in this grant will last for 6+ years due to the updatable nature of the Operating system. There will be no need to purchase any additional parts.

   **Expected Service Life**
   - Cintiq 13HD Interactive Pen Display 6+ years.

**c. Person(s) responsible for**

    **i.   Implementation**

        1. Prof. Adam Feld in Industrial Design plans to use the displays in INDN 211, INDN 301, INDN 302, INDN 307, and INDN 308 classes. They will also be available for the INDN 400 level students as well.

    **ii.   Installation**

        1. Prof. Adam Feld will oversee the instillation of the included software for use with the student's personal computers. The install disks will be located in office 112 Fletcher.

    **iii.   Maintenance**

        1. Cintiq 13HD Interactive Pen Display

            i. There is no maintenance with these displays. Any maintenance will more about making sure the surface is clean.

    **iv.   Operation**

Since the Cintiq 13HD Interactive Pen Display connects to the student's computers, it is the grant writer's intent to create a system where students, who have been trained on the use, can check out the displays to complete their assignments as well as other work. It is the expectation that when checked out, the students will need to keep the displays in Fletcher Hall. The displays will initially be stored in the grant writer's office, JLF 112, but it is the hope that they be moved to the Digital Fabrication Lab in Fletcher Hall once the lab is fully operational.

    **v.   Training (with qualifications)**

The use of these interactive displays will begin in INDN 211 with an overview of the displays and basic use. The main training will come in IDND 301 and will be linked to an assignment that will mimic work students will be expected to complete in the professional world.

**d. The narrative of each proposal must include the purpose and justification for each of the items listed in the Budget Proposal.**

    i.   **Cintiq 13HD Interactive Pen Display**, The use of these tablet displays is becoming more and more the industry standard. Providing the opportunity for students to use these as well as gain confidence in their use will make them competitive in the professional market. These interactive displays connect to both Windows and Mac computers and do not require any software.

**Budget Proposal**

1. **Equipment**     **$ 14,399.10 Cintiq 13HD Interactive Pen Display**
                                               **(18 at &799.95 a piece)**

2. **Software**        **$ 0.00**

3. **Supplies**         **$ 0.00**

4. **Maintenance**    **$ 0.00**

5. **Personnel**       **$ 0.00**

6. **Other**            **$ 0.00**

**TOTAL:**            **$ 14,399.10**


1.      Include any additional information relevant to your application.

2.      Discuss all previous funded STEP projects (if any).
There have been no previous awards by the applicant, however, there has been an additional application submitted this round.

## ONE ELECTRONIC COPY (Microsoft Word or Adobe PDF) OF PROPOSAL SHOULD BE EMAILED TO
### [stepproposal@louisiana.edu](mailto:stepproposal@louisiana.edu)
### BY DEADLINE DATE.

## For additional submission instructions and deadlines, please visit http://cio.louisiana.edu/step-process

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