

March 24, 2014

Virtual Theatricality Lab*Obsolete Student Computer Request For Funding

Presented to the TIC Committee

By

Dr. George Popovich

1:40 PM F 163

*VTL

The purpose of this request is to replace 6 obsolete windows and 1 MAC computer(s) in the VTL. The VTL Student Lab consists of 10 student machines that support the following classes:

(10 STUDENT COMPUTERS PLUS ONE INSTRUCTOR COMPUTER)

Course	13/FA	13/SU	13/SP	13/WI
THEA 133-01*	2	0	1	8
THEA 134-01*	3	0	3	12
THEA 134-80*	0	5	0	0
THEA 142-70*	7	0	1	12
THEA 142-80*	0	6	0	0
THEA 233-01*	0	0	2	14
THEA 233-11*	0	0	0	0
THEA 234-01*	0	1	1	2
THEA 242-70*	1	0	0	6
THEA 242-80*	0	2	0	0
VTL 235-01	0	0	0	14
VTL 263-70	0	0	0	7
VTL 264-01	0	0	4	0
VTL 265-01	0	0	0	9
VTL 266-01	9	0	0	7
VTL 267-01	0	0	6	0
VTL 268-01	0	0	0	9
	22	14	18	100

*"Piggybacked Class

VTL COMPUTER COMPARISON

6 Old VTL Computer (2002 – 2004)	Meets Adobe Specs	Meets Autodesk Specs	Meets Tech Theater Specs	New Computer (2014)	Meets Adobe Specs	Meets Autodesk Specs	Meets Tech Theater Specs
Intel Pentium 4 2GHz Processor				Intel i7 3.4GHz Processor	√	√	√
1 GB RAM				8 GB RAM	√	√	√
ATI Radeon Graphics Card				nVidia GeForce GTX 645 Graphics Card	√	√	√
720x480 SD Video Rendering				Full HD 1080p Video rendering	√	√	√

- Currently 3 of the 6 computers will not startup.
- Current computers are using Windows XP which Microsoft will stop supporting in June, 2014

This Project follows TIF Guidelines:

1. Provide technology to multiple courses or programs.

The software and equipment purchased with this grant benefits multiple courses in the following areas: VTL and Tech Theatre as specified on p. 1 of this document.

2. Introduce student access to technology where it has not been available.

The inclusion of Tech Theatre classes for VTL computer use will enable computer-based instruction in Tech Theatre classes: this has not been the case.

5. Promote innovation.

The Virtual Theatricality Lab has established itself as a cutting-edge leader with the development of a revitalizing curriculum that unites the disciplines of computer science, art, music, theater, dance, film, and video. The VTL is dedicated to forging the live performance technologies of the 21st century and beyond. This grant will enable the VTL mission to continue.

6. The technology requested must benefit students.

The computers requested are solely for student use, with the exception of the MAC, which will serve as a portable instructor machine and as a means to prepare and place student work on the VTL website.

7. Promote curricular revision.

This project will enable the creation of a Visual Effects For Stage and Screen Certificate.

8. Support areas that have established themselves as leaders using technology.

**The VTL's 21-year history of technological innovation is well-documented at:
<http://vtl.hfcc.edu/>.**

9. Pursue additional funding source.

The VTL has always supplemented TIF Grants with money from Theatre Ticket Sales.

10. The project must be aligned with the goals of the College. **The project aligns with the following college goals:**

ACCESS

Provide accessible, high quality, and affordable education to meet the needs of our community.

Provide affordable access to the College's programs, courses, and service.

The VTL classes are a bargain for students. They provide students access to software and instruction that would cost 3 times as much if obtained at regional software training facilities.

STUDENT SUCCESS

Design and implement strategies to increase student success in their academic pursuits.

Assess student needs and implement plans to increase student retention. Develop a plan to increase student retention and graduation rates. Enhance academic opportunities and support for high-achieving students. Increase graduation rates by promoting the value of an Associate degree and improving articulation and reverse transfer agreements.

Students in TCM and ART programs tend to take VTL classes to supplement their studies. These students tend to have much invested. They remain longer and finish their major programs. VTL classes are immersive, intense, and can challenge the gifted and talented student.

COMMUNITY ENGAGEMENT

Investigate, establish, and strengthen partnerships with key stakeholders within the community to better address the needs of students, community stakeholders, and the College.

Create more opportunities for community members and organizations to engage in joint programs and services with the College.

Collaborate with other educational institutions and professional organizations to provide students with a seamless educational pathway and enhance their educational opportunities.

The VTL has relationships with and has placed students at the following key stakeholders. This the successful implementation of this project will insure these relationships will continue, especially when the Visual Effects Certificate is created.

ANIMATION AND GAMING STUDIOS

Parliament, Clawson

Postique, Southfield

Pixo Entertainment, Southfield

Stage 3 Studio, Warren

Speedshape, Bingham Farms

Pluto, Birmingham

Hot Buttered Toast Animation and Design Studio, Howell

Digital Image Studios, Farmington, Hills

Digital Design Village, Grand Rapids

La Driere Studios, Bloomfield Hills

Chimera Studios, Northville

Shadowbox, New Media Group, Pontiac

CONTINUOUS QUALITY IMPROVEMENT

Promote effectiveness through the development and use of continuous quality improvement.

This project will implement curriculum changes based on student need.

Foster a culture of improvement and effectiveness.

This project is cost effective: 10 student machines serve between 14 and 25 students a semester.

Maintain and improve College facilities to provide a welcoming environment conducive to teaching and learning and to promote the image of the College.

The VTL is one of the public faces of the college:

<http://www.encoremichigan.com/article.html?article=8119>

<http://detroit.cbslocal.com/2014/01/31/580842/>

CURRICULUM

Develop and deliver curricula to prepare students for a rapidly changing world and workplace.

The VTL keeps abreast of all technological developments within its instructional area. Recently the Xbox Kinect has revolutionized the animation world by enabling low cost MARKERLESS motion capture:

http://www.reallusion.com/iclone/iclone_mocap_device.aspx

The VTL has incorporated this development into its curriculum. This implementation of this project will enable Markerless Motion Capture instruction for all students enrolled in VTL classes using Markerless Motion Capture Technology.

Align course, program, and general education learning outcomes with expectations of four-year institutions, accrediting agencies, business and industry, and other partners.

The VTL has relationships (their students take VTL classes) with several University programs. This project will enable us to continue and enhance those relationships. Among the universities and programs the VTL has relationships with are:

<http://www.emich.edu/cot/sag/>

<http://um3d.dc.umich.edu/>

Review existing and develop new programs to meet emerging workforce needs.

Retiring the Motion Capture Certificate and developing the Visual Effects Certificate for Stage and Screen will accurately reflect workforce needs: a variety of skills are needed, not just one.

Develop curriculum that lends itself to non-traditional delivery formats.

The VTL uses online resources, assignments, and submissions. The instructor MAC computer requested in this grant will enable us to update and refresh these materials.

FUNDING

Develop and implement operational efficiencies to maximize the effective use of available resources.

This grant will ensure that the equipment (cameras, editors, volume) will continue to be used. Their initial purchase represents a significant expense to the school. This grant enables utilization of the initial purchase.

TECHNOLOGY

Train employees to effectively use new and existing technologies.

All VTL Staff will be trained on the updated software and equipment purchased with this grant.

OUTCOMES

1. Maintain current enrollment in VTL and Tech Theatre classes.
2. Increase enrollment in VTL and Tech Theatre Classes once Visual Effects Certificate for Stage and Screen is created.
3. Produce new HFCC Theatre stage productions utilizing emerging digital technology.
4. Incorporate computer instruction in Tech Theatre Classes.
5. Increase student placement in area animation studios.

VTL TIF PROJECT BUDGET

ITEM	VENDOR	PRICE EA	TOTAL PRICE
6 Windows computers-Specs Attached	Canton Computer As Per Sandro	1600	9600
1 Mac Book Pro-Specs Attached	Apple	1800	1800
12 seats Adobe Production Premium	Studica-Quote Attached	NA	4500
12 upgrades for Autodesk Software	Studica-Quote Attached	1470	1470
	GRAND TOTAL		17370

***Discount received because we use the same software as the Graphic Design Lab**

Intel I7 Processor

Intel I7 4770 CPU 3.4 GHz

Intel DH87MC SK1150 Motherboard

450W Power Supply

8 GB DDR3 RAM

ATX Standard (mid) Tower Case with 450w power supply

- *high quality cases only*

- *chassis and power supply must meet the Intel Thermally Advantaged Chassis specification*

Video Card: nVidia GeForce GTX 645

- *4 Gbps 2048x1536 Resolution, Dual Link DVI-D, DVI-I, HDMI, Display Port, PCI-Express 3.0*

22" Wide screen flat panel display – Full HD 1920x1080

- Acer Model # V22HQL Abd preferred

Windows Keyboard

8 USB 2.0 Ports: 6 on back of case & 2 on front of case

- Front USB ports must be 3" or higher from bottom of case

500GB SATA WD 7200 rpm Hard Drive

- Comparable to Western Digital PN:WD5000AAKX

1TB SATA WD 7200 rpm Hard Drive

- 2nd physical drive for local storage (not partitioned)

10/100/1000 Ethernet (Intel Chipset)

24x SATA DVD burner -/+ RW DL

Powered speakers

USB Keyboard

USB Microsoft Optical mouse with mouse pad

Windows 7 Professional 64 bit

APC Surge Arrest Surge Suppressor

Delivery

One Year On-Site Warranty (minimum)

All docs, disk, etc

Color of system - Black

Notes:

- The motherboard must be an Intel motherboard and not just a motherboard with an Intel chipset.
- The motherboards to must be legacy BIOS compatible.
- The Western Digital hard drive (PN: WD5000AAKX) is the minimum. A hard drive with comparable performance specs is acceptable.
- The network card Intel chipset is the standard.
- The video card cannot be built into the motherboard. Video must be an add-on card with the nVidia GeForce GTX 645 being the minimum standard. A comparable video card meeting the minimum standard is acceptable.

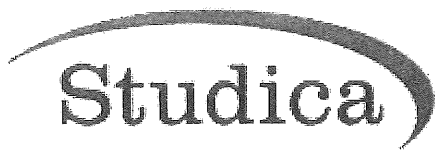
VTL COMPUTER SPECIFICATIONS-MAC

MAC BOOK PRO

13-inch: 2.6GHz

with Retina display

- 2.6GHz dual-core Intel Core i5
- Turbo Boost up to 3.1GHz
- 8GB 1600MHz memory
- 512GB PCIe-based flash storage¹
- Intel Iris Graphics
- Built-in battery (9 hours)²



Quote

Quote Number : **27917**

Quote Date : **Mar 14, 2014**

Representative : **Rebecca Barry**

Studica, Inc.

2326 Lockport Road

Sanborn, New York

14132

Tel. 888.561.7521

Fax. 877.754.2807

TIN# 16-1529909

Bill To:

Alan Contino

Henry Ford Community College - Fine Arts &

Fitness Division

Tel. 313-845-6475

Qty	Description	Part Number	Unit Price	Extension
10	Adobe Production Premium CS6 MLP License		330.00	3,300.00
2	Adobe Master Collection CS6 MLP License		600.00	1,200.00

Sub Total: \$ 4,500.00

Total: \$ 4,500.00

all prices are in \$ USD

Important Quote Information

- The above prices are valid for 30 days from the date of the quote.
- Terms are Net 30 Days for qualified pre-approved, educational institutions, otherwise pre-payment or credit card is required.
- Submit School Purchase Orders to Studica, Inc., 2326 Lockport Road, Sanborn, NY 14132, fax to 877.754.2807, or email to purchasing@studica.com.



Quote

Quote Number : **28246**

Quote Date : **Mar 20, 2014**

Representative : **Rebecca Barry**

Studica, Inc.

2326 Lockport Road

Sanborn, New York

14132

Tel. 888.561.7521

Fax. 877.754.2807

TIN# 16-1529909

Bill To:

Alan Contino

Henry Ford Community College - Fine Arts &

Fitness Division

Tel. 313-845-6475

Qty	Description	Part Number	Unit Price	Extension
12	Autodesk Entertainment Creation Suite Ultimate 2014 Education New SLM		90.00	1,080.00
12	Autodesk Subscription - One Year Term		15.00	180.00
1	Studica Technical Support		200.00	200.00
	Please Note: If the Studica Annual Support option is not purchased, support from Studica will be available on a per incident payment schedule, payable in advance of support		0.00	

Sub Total: \$ 1,460.00

Shipping - Shipping & Handling: \$ 10.00

Total: \$ 1,470.00

all prices are in \$ USD

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