Computer Refresh

Scott Silvers IT Chair

Purpose

Requesting approval to purchase 8 new computers to

- 1. Replace old hardware
 - a. Critical machines nearing end of useful life
 - b. Underpowered machines for running all of the software we've purchased
- 2. Improve our offerings
 - a. Add computers for requested areas
 - i. Cosplay
 - ii. Electronics
 - iii. Purcellville Green Room
 - b. Add features that have been requested by members
 - i. 3D scanning, modeling and photogrammetry
 - ii. Video production

Purpose

Requesting approval to purchase 8 new computers

- 1. Replace old hardware at risk of failure
 - a. Leesburg
 - i. 3D Printing at MSL
 - ii. Laser Cutter at MSL
 - iii. Classroom
 - iv. UV or Sublimation
 - v. Big Red or Metalworking (Brad want's Fusion 360 for one of those rooms.)
 - b. Purcellville:
 - i. Green Room
- 2. Add new locations
 - a. Leesburg
 - i. Cosplay
 - ii. Electronics
 - b. Purcellville
 - i. 3D Printing at MS-P

Old Hardware

These PCs are essential to Makersmiths offerings, but are older hardware facing an increased risk of failure.

No spares on hand to replace so failure will prevent use of the tools attached

- Laser Cutter
 - Dell XPS 8500
 - Donated by Beverly Murdock
 - Mfg Date: 12/07/2012
- 3D Printing/Classroom
 - Lenovo 501S-08ISH
 - On Loan from Mike Fistler
 - Mfg Date 08/2016

Limited Accessibility Impacting Space Use

- Electronics Room at Leesburg
 - No computers currently
 - Difficult to work in electronics without access to Internet for circuit designs and code for PIs/Arduinos
- 3D Printing
 - Leesburg
 - Single computer makes classes take longer
 - Conflicts when multiple members want to print
 - Purcellville
 - No dedicated computer
- Green Room at Purcellville
 - Only 1 computer in the Green Room
 - Complaints about conflicts between 3D Printer users and Woodshop users
 - No computer in LB classroom

Solutions

Dell XPS 8960- For compute intensive programs

- Windows 11 Pro
- 13th Gen Intel® Core™ i7-13700
- NVIDIA® GeForce RTX[™] 4070, 12 GB GDDR6X
- RAM: 32GB upgradable to 64GB
- 1 TB, M.2, PCIe NVMe, SSD (boot) + 2 TB, 7200 RPM, SATA, HDD (storage)
- <u>https://www.dell.com/en-us/shop/desktop-computers/xps-desktop/spd/xps-8960-desktop/usextpbts</u> 8960gmxn

Dell Inspiron 3020

- Windows 11 Pro
- 13th Gen Intel® Core™ i7-13700
- NVIDIA® GeForce RTX™ 3050, 8 GB GDDR6
- RAM: 16GB upgradable to 64GB
- 1 TB, M.2, PCIe NVMe, SSD
- <u>https://www.dell.com/en-us/shop/desktop-computers/inspiron-desktop/spd/inspiron-3020-desktop/u</u> seitpbts3020gsds

Solutions

Dell 27 Monitor - S2721HS

- 27"
- Full HD
- <u>https://www.dell.com/en-us/shop/cty/apd/210-axjz</u>

Placement

Dell XPS 8960

- Classroom
- UV Printer
- 3D Printing
- Green Room

Dell Inspiron 3020

- Green Room
- Big Red/Metal Shop
- 3D Printing

Existing Dell Computers

- Cosplay
- Electronics
- LB Classroom

| Computer | Price (incl tax) | <u>Qty</u> | <u>Total</u> |
|---------------------------|------------------|------------|--------------|
| Dell XPS | \$1,866 | 4 | \$7,464 |
| Dell Inspiron | \$1,017 | 3 | \$3,051 |
| Dell Monitor - S2721HS | \$158 | 4 | \$632 |
| | | | \$11,147 |