

2013 Summer Co-Op Review

Braden Licastro
May – August & November 2013





Profile: Braden Licastro

School Attending:

Allegheny College

Class Standing:

•• Genior

Major:

*...; omputer Science

Minor:

Economics

Manager:

Jim Zakrzwski



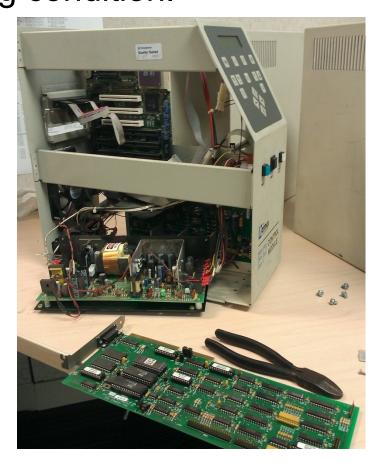
Project: Vibratory Engraver Repair

 Scope: Upgrade PC, restore engraver and Control Unit to working condition.

 Goals: Upgrade computer to GravoStyle 7

Diagnose, repair, and clean engraver / control unit.

Configure, calibrate, and test engraver software to ensure proper function.





Project: Vibratory Engraver Repair

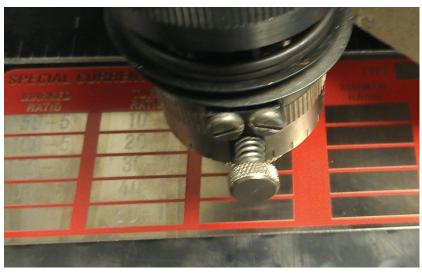
- Challenges Overcome
 - No prior experience using engraving machines, configuration lost when computer failed
 - Both computer and engraver control unit failed
 - Upgrading specialized software from MS-DOS to Windows 7
 - No documentation available to assist with repairs



Project: Vibratory Engraver Repair

- Project outcome:
 - Upgraded, repaired, and calibrated engraver and computer system. Test engrave successfully completed.









Project: Conference Room Maintenance

Goal:

- Ensure conference rooms renovated last summer were still in working order and repair any damage.
- Rework product support and production conference rooms.

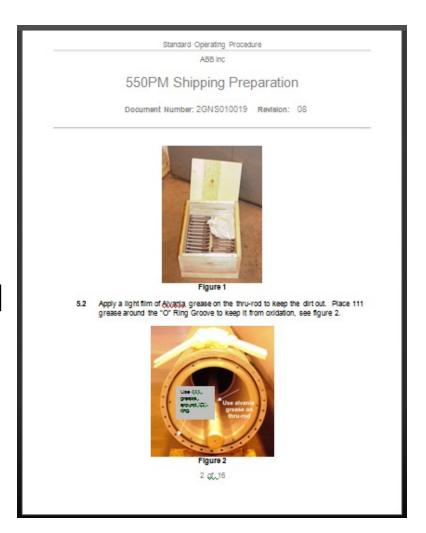






Project: Change Requests

- Scope: Update technical documents to reflect new process changes.
- Project Outcome:
 All requests completed and submitted for approval.







Project: Production Floor Wood Reduction

- Scope:

 Coordinate the change away from wood tooling from the production floor.
- Project Outcome:

 All wood tooling
 successfully replaced
 with aluminum. No
 impact on manufacturing.







Goals:

- Remove hydraulic fire suppression and install modern Halon replacement.
- Install hard ceiling and create airtight space.
- Upgrade HVAC and lighting to accommodate fire system
- Install whole-room, 2.5 hour battery backup with surge protection and monitoring.
- Upgrade legacy and damaged equipment.
- Upgrade wiring in server room and remote computing cabinets.



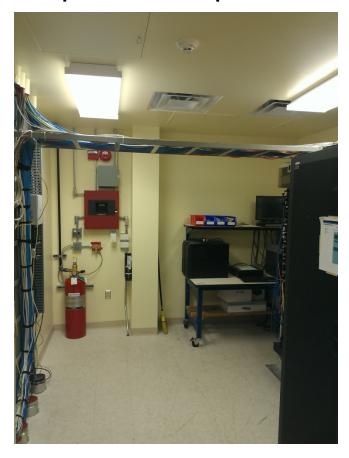
- Challenges Overcome
 - No on-site IT support for diagnostics and assistance
 - Project could not interrupt day-to-day operations
 - Working with obsolete, heavy, and delicate equipment
 - Coordinating construction schedule with several contractors
 - Researching, purchasing, and installing unfamiliar equipment and technologies



- Project Outcome:
 - Room construction completed and passed inspections

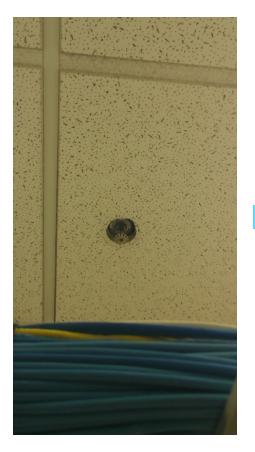








- Project Outcome:
 - Sapphire Fire Suppression installed and operational











- Project Outcome:
 - 2.5 Hour Battery Backup Installed and Operational





- Project Outcome:
 - Remote network cabinets rewired and upgraded

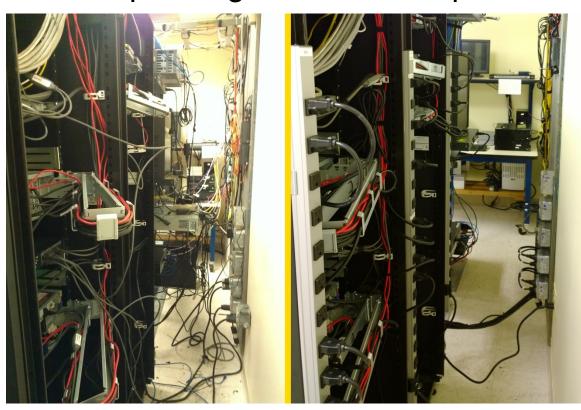








- Project Outcome:
 - Server Racks and miscellaneous equipment upgraded, rewired, and operating on redundant power.





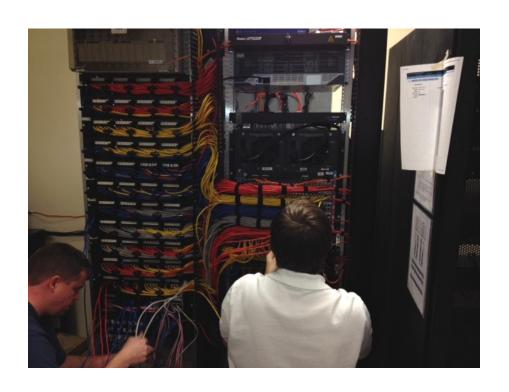
- Project Outcome:
 - Data Racks upgraded, rewired, and operating on redundant power.
 - New standards created --racks organized, and wired appropriately.





Conclusion:

- Network upgrades functioning perfectly.
- No production downtime occurred.
- Modern, reliable, and maintainable setup will reduce future maintenance costs.







Beneficial Experiences

- Learning how corporations manage funds and logistics for purchases
- Successfully coordinating schedules with large groups of people and contractors
- Working cooperatively in a union environment
- Communicating with out of state and country resources to complete a task
- Using past experiences and knowledge to complete a difficult or new task



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