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Thinking Outside the Box

Specialized Educational Technologies

Dental Lab
Specialized Dental Technologies

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Dental Lab: Specialized Dental Technologies

**Innovation:** Computerized Dental & Digital Radiography Lab incorporates technology into very specialized fields of Dental Hygiene & Dental Assisting.

**Problem:** the space required for computer cabinet, dental cabinet, multiple cables & dental tools.

**Solution:** be innovative to reduce clutter, while also adding new technology & advanced learning opportunities.
Before: Notice the stretched cables, power strips, & dual cabinets
Our solution was to design a moveable dental cabinet with command post arm to support an LCD monitor/keyboard/mouse & hide the computer.

Wireless technology removes the need for network cabling. A large power strip consolidates all electrical needs.
Dental Command Post, attached to moveable cabinet, which houses cpu, intra-oral camera & dental charts, manuals.
Notice wire management on back of cabinet & intra-oral camera.
A busy dental lab, but less cluttered & safer with fewer cabinets & cables.
Dental Lab
Specialized Dental Technologies

This is a collaborative project between Dental Hygiene at MSU, Dental Assisting at South Central College, Information Technology Services, & the Academic Computer Center.

Cooperative funding provided by student technology fee, Academic Affairs, Dental Hygiene, Dental Assisting.
Notice keyboard & mouse sanitary covers
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Intra-Oral cameras allow the imaging of the interior of the patient’s mouth & viewing on through the computer onto the LCD Display.

The pictures are also stored on the patient’s records through Dentrix or can be emailed to a Dentist for consultation.
Inter-Oral Camera, displayed onto 17” LCD
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**Dentrix** allows students to learn the latest dental office software, record patient information, store pictures from the Inter-Oral cameras or the Digital Radiography.

Follow-up appointments can be scheduled while the patient is still in the dental chair.
Dental Hygiene student charting in Dentrix software
Height adjustable for standing or sitting
Digital Radiography is an alternative to replace x-ray film & chemical film development. It is much quicker for students to spot a mistake & easily take another digital picture. The Digital Radiography pictures are stored on the patients files or sent electronically to a Dentist for consulting. Four Digital Radiography stations were built into the x-ray rooms.
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The Dental lab is a "Satellite Computer Lab", is on the three year computer replacement cycle, is maintained & supported by the Academic Computer Center.

This is a highly successful project with student enrollment at maximum. Students & faculty are learning on the latest dental technologies available to the industry. 90% of students pass board exams upon graduation & are immediately hired.