

Michael McCosh

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Portfolio: <https://michaelmccosh.com/> | Github: <https://github.com/macksm3>

Summary

Delivering above expectation is the driving motivation on projects with unique personal/customer needs, with a goal of providing the most efficient methods to accomplish any given task. Skilled at ergonomic user interface design and the logic to make it seamless. My experience as a photographer since the era of film cameras has taught me quite a lot about making images that appeal to the eye, a user interface must be the same way, it should look good, as well as being easy to navigate.

Technical Skills

Crestron Programming, UI Design, A/V system design, AutoCAD, audio DSP programming, HTML, CSS, JavaScript, jQuery, nodeJS, Networking, Troubleshooting

Soft Skills

Leadership, mentoring, customer service, written communication/documentation, email, word processing, spreadsheet.

Projects

Password Generator;

<https://github.com/macksm3/HW3-Password-Generator>

<https://macksm3.github.io/HW3-Password-Generator/>

- The project is a secure password generator that prompts for character subsets to include. Password length is also set by the user.
- Homework assignment, responsible for all of it.
- HTML, CSS, JavaScript.

Work Day Scheduler;

<https://github.com/macksm3/HW5-Work-Day-Scheduler>

<https://macksm3.github.io/HW5-Work-Day-Scheduler/>

- The project is for local storage of a daily task scheduler with the ability to save info independently for each hour of the work day.
- Homework assignment, responsible for all of it.
- HTML, CSS w/bootstrap framework, JavaScript, jQuery.

Project-Wilder;

<https://github.com/nkleinmann/Project-Wilder> | <https://nkleinmann.github.io/Project-Wilder/>

- The project is a space theme, photo collection app that allows user to search for and save pictures from a variety of sources like NASA and SpaceX.
- initial responsibility of UI, built basic look and feel for the project. Took on some of js file work when I had the ability to make it work.
- HTML, CSS w/Materialize framework, JavaScript, jQuery, particles.js API, with NASA and SpaceX server side APIs for data processing.

Work Experience

2008 to 2019

Senior System Programmer / System designer

Image Stream Medical / Olympus | Littleton, MA

Crestron control in hospital operating rooms is a growing trend, and producing a reusable, configurable control program that does not require compilation for each project but instead needs just a configuration file is key. As the dedicated hardware product comes online, the need develops for support spaces outside the OR including simulation suites and training/conference rooms. These suites have multiple robotic cameras for streaming/conferencing and recording as well as interconnected, multi-modal audio to go with it all. These are very large, complex, multi-processor projects that require thousands of programming hours to complete. Crestron programming used to create these showpiece systems attract new customers nationwide including the attention of another major player in the integrated OR business, Olympus. Also created protocol translators that convert commands for given device that may have gone end of life to different model device where standard release product does not contain capability for that device (i.e. lighting controllers and audio processors)

Control systems for world class medical training facilities that give users the ability to operate a vast array of A/V resources throughout a facility from a single control point.

- Strategic partner projects.
- First-of-Kind system design
- AutoCAD drawings
- Bill of Materials
- Protocol Translator
- user configurable audio system product
- conference room systems
- Customer service
- Troubleshooting

Specialties: Programming certifications for Crestron

Silver Certified Crestron Master Programmer

A/V integration control system programming and design.

Intuitive user interface design and development.

A/V system operation manuals and training.

A/V system technical documentation, AutoCAD.