

Christopher Ryan Mackay

Citizenship: United States Citizen

55 Concord Street Framingham, MA 01702

Phone: 774-245-0097

Email: cmackay732@gmail.com

Linkedin Profile: <http://www.linkedin.com/pub/christopher-mackay/25/a8a/498>

EDUCATION

Wentworth Institute of Technology Boston, MA

Bachelor of Science in Mechanical Engineering Technology

September 2008-August 2012

GPA: 3.21/4.00

Massasoit Community College

Associate of Applied Sciences in HVAC

September 2005-December 2007

GPA: 3.73/4.00

TECHNICAL SKILLS: Computer Drafting & Construction Document Production, HVAC System Design, Building Load Calculations, Computer Programming

TECHNOLOGIES: AutoCAD 2019, Revit 2020, Revit API, Navisworks Manage & Simulate 2020, Trane Trace 700, Visual Studio 2019 Community, Inno Setup, Git, Microsoft Office 365 (Word, Excel, Power Point, Access)

EXPERIENCE

DPS Group Global Framingham, MA

Mechanical Engineer

November 2015-Present

- Work directly with project engineers to design HVAC systems for pharmaceutical and bio-tech manufacturing facilities
- Size and design layouts for ductwork and piping systems utilizing Revit and AutoCAD software
- Produce and manage construction documents
- Utilize Navisworks to coordinate with Architects, Electrical, Plumbing, and Fire Protection engineers to minimize conflicts during construction
- Review contractor submittals
- Answer contractor RFI's
- Perform field visits for new and on-going projects
- Produce field and punch-list reports
- Develop custom productivity add-ins for Revit utilizing the Revit API and the C# programming language

Accomplishments

- Worked as one of the mechanical engineers designing Moderna Therapeutics in Norwood, MA. Key role involved the design and coordination of the ductwork systems for the entire facility. The facility won the ISPE Facility of the Year award in the Facility of the Future category.
 - <https://ispe.org/facility-year-awards/winners/2019/facility-future>
- Developed a package of custom Revit add-ins that is accessible company wide. It's also open-source and available on GitHub
 - <https://github.com/chris-mackay/CRMRevitTools-v2020>

Fitzmeyer & Tocci Woburn, MA

Mechanical Design Engineer

September 2012-November 2015

- Worked directly with project engineers to design HVAC systems for academic & healthcare facilities
- Size and design layouts for ductwork and piping systems utilizing Revit and AutoCAD software
- Produce and manage construction documents
- Utilized Navisworks to coordinate with Architects, Electrical, Plumbing, and Fire Protection engineers to minimize conflicts during construction
- Review contractor submittals
- Answer contractor RFI's
- Perform field visits for new and on-going projects
- Produce field and punch-list reports

Cannon Design Boston, MA

Mechanical Intern; AutoCAD & Revit MEP Designer

January - April 2011 & September - December 2011

- Worked under the supervision of experienced HVAC project engineers and designers to create construction documents
- Performed building load calculations utilizing Trane Trace 700 and custom excel spreadsheets
- Designed ductwork and piping layouts based on VA Medical Center specifications
- Project experience included work for VA Medical Center Providence, Rhode Island