

vlk24

Tori Klug's Individual Contribution Page

Spring 2014 Contributions

I lead the overall team and advise the PR team and the Plant Cost Calculator and Water Treatment Technology Selection Guide team.

Fall 2013 Contributions

I led the overall team and worked on the design team, updating the chemical dose controller design and drawing.

Fall 2012 Contributions

I am leading the design team to improve the abilities of the Automated Design Tool. Tasks include: expanding the range of flow rates for which we can design, creating 2D cuts of the design and details of specific plant components for use in the field, creating an error checking system for the designs, rounding dimensions calculated in the design to be more accurate to the field, and incorporating many new research results into the design.

Summer 2012 Contributions

I led the design team in various tasks including expanding the range of flow rates for which the Automated Design Tool can create designs, creating modular designs for various plant components, supplying a materials list along with the design specifications document, and creating an LFOM template and labels for the LFOM and CDC lever arm and calibration column.

Spring 2012 Contributions

I led the design team in various tasks to both incorporate recent innovation in research into our design and to generally improve the robustness of our code.

Fall 2011 Contributions

I worked, again on the design team, to improve and consolidate the MtoA translators used to create functions and shapes and effectively "translate" Mathcad code into AutoCAD inputs.

Spring 2011 Contributions

I worked on the design team with Annie Newcomb to create a database of chemical storage tanks and the Mathcad code to assign the proper size coagulant tanks to a plant, along with the pipes and pieces that will connect the tanks to the constant head tank once we are able to draw flexible tubing. The database contains tanks from the supplier Rotoplast, which is based in Colombia and whose products are available in Honduras and other countries in Latin America. Our final report is available [here](#) and provides details about how the tank sizes are chosen and how the tanks along with the connecting pipes and pieces are drawn. Our page is called "Coagulant Stock Tank Design Program" since our AutoCAD scripts draw only the coagulant stock tanks; however, our tank database can also be used for the chlorine stock tanks.