**Graduate intern project**

**Learn about different fire extinguishing systems:**

<https://www.ansul.com/en/us/pages/ProductSeries.aspx?ProductType=Clean+Agent+Systems>

<https://www.ansul.com/en/us/pages/ProductSeries.aspx?ProductType=Carbon+Dioxide+Systems>

* Ideal gas systems (inergen, nitrogen, argon,…) <https://youtu.be/CY7yogTl7hI>
* Halocarbon systems (Novec, FM200,…) <https://youtu.be/GbKegiY0pSk>
* Carbon Dioxide systems (low or high pressure)

**Modeling methods we are interested in to simulate flow in pipe networks**

* Literature review on available methods and
* <https://www.nist.gov/sites/default/files/documents/el/fire_research/R0000181.pdf>
* <https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19850007392.pdf>

**Software development tools we use:**

* GitHub
* Jupyter Notebooks
* C++
* Doxygen