



Monthly Newsletter from your Friends at Team Engineering

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Residential

Tricks of the Trade

By John Turner, PE



Team Engineering is known as the local “Go-To” Engineering Firm. You have a technical problem or question about your building? We have an engineer with a solution. Naturally, we want to “Improve your Life!” through our engineering services and thus, the following are some free tricks to help guide you for whether you really need one of our great people or not:

1. Foundation Cracking and Settlement:
 - a. Vertical cracks are generally less serious than diagonal or horizontal.
 - b. 1/8” crack size is a good rule of thumb. Larger than 1/8”, you might need an engineer;
 - c. Water penetration: If the water puddles on the floor below the crack, you should fix it!
 - d. If the foundation wall is out of plumb more than 1/4”/foot, it’s time to call an engineer;
 - e. If the wall separates from the floor more than 1/4”, it’s time to call an engineer.
 2. Framing Basics:
 - a. Great rule of thumb for conventional wood floor joists in residential applications: take span (say 15’), divide by 2 (7.5’) now add 2 and convert to inches for depth of “2 by” member required for span (9.5” or a 2”x10”) at 16” on center. One more example: 10’ span, divide by 2 is 5, add 2 is 7 for 2x8 at 16” on center.
 - b. The classic strong roof section is the gable or triangle. This means strong connections are required at all 3 corners. If the bottom members (usually the ceiling joists) do not connect the upper legs of the triangle (the rafters), then you better shovel the snow off - and then call an engineer!
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Client of the Month

Turn Cycle Solutions

By Brian Ki, EIT

Team Engineering has been proud to work side-by-side on several projects with **Turn Cycle Solutions**. Their knowledge in both energy efficiency and general contracting has brought valuable skills to the project table for many of our clients. With Turn Cycle, Team Engineering is able to tag-team architectural and structural designs from start to finish. Not only can we give realistic expectations on what the proposed structure may become, but with the help of Turn Cycle Solutions, realistic expectations on construction practicality and costs can also be discussed at the start of the project. This upfront budget estimating helps our clients to confirm that they have a design that can actually be built right away and minimizes the chance of any surprise costs down stream. We are very fortunate to be able to collaborate with Turn Cycle Solutions and bring their knowledge and skills to benefit our clients.



Project Spotlight

Team Engineering has your back

By Brian Hansen, Project Manager

We were hired by a client to re-design the first floor of her home.

During the site visit, Brian asked about the ladders leaned up against her house. She told Brian that she hired a contractor through the local home improvement store to replace the flat roof over her kitchen. Brian offered to take a look which she gladly accepted.

Wow. Not good.



The contractor did not properly fasten the roofing perimeter that contacted the exterior walls of the second-floor of the home.

After our inspection, the client reached out to the contractor services rep at the home improvement store but they did not return her calls. At her request, we called and reported what we saw and proceeded to properly make the rep wish that his contractors did a better job. A few days later, our client called and explained that the



contractors made some corrections and the Home Improvement company had agreed to fix the roof, the walls and even throw in a few windows. That was the least they could do for not taking care of their client. Our client is going to be ok.

Fun Day Challenge



ARE YOU SMARTER THAN AN OFFICE FULL OF ENGINEERS?

PROVE IT.

SECOND ANNUAL TEAM ENGINEERING SCAVENGER HUNT.

Think about the fun. Think about the bragging rights. Think about the fact that you have no chance of beating us at our

own game.

-Brian Ki

We have room in our scavenger hunt for four additional groups of three teammates. We will create an original list of items based on a point system and the team with the highest amount of points by the 1:00 deadline will have their names engraved on the Legendary “Tink’s Cup”. We will meet at the Team Engineering offices at 8:00 am on a Friday in May (TBD) for a rules meeting, distribution of hunt list, and a possibly hilarious opening ceremony.

Here is why you should enter a team from your company:

1. You want to prove that you are smarter than we are.
Good luck with that.
2. Your company’s \$ 150.00 entry fee goes to New Horizons for NH Homeless shelter in Manchester, NH.
3. It is a fun team building opportunity
4. You want lots of funny pictures of your teammates to post on Facebook.
5. Cmon, do you really need more reasons? Just sign up.



The deadline for the hunt will be 1:00 pm at a local-to-Bedford location TBD. At that location, we will have a nice lunch of chicken fingers from the Back room waiting for you (compliments of Team Engineering).

You can sign up by reaching out to Brian Hansen at

bhansen@myteamengineering.com. If you have an interest, let him know soon.



Charity of the Month



Veterans Count

Their mission is to provide critical and timely financial assistance and services when no other resource is available to veterans, service members and their families, to ensure their dignity, health and overall well-being. Here at Team Engineering, we are patriotic, and we make contributions to programs like Veterans count.

"Our goal is that 90% of every net dollar raised for Veterans Count is spent to provide services and grow resources for NH veterans, service members and their families."

Team Engineering has proudly donated \$150 this month to the **Veterans Count**.



What's happening with Turbo



Working the NH State Home Show with John

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