How RSEs Can Improve Project Quality by Embracing the Role of "Educated Ignoramus"

- Assumption
  - ▶ RSEs help identify requirements
  - ▶ Documentation on continuum from:
    - ▶ Rigorous and formal following a template, to
    - ▶ Implicitly in team member's minds
- Definition
  - ▶ "Formal Methods: the Very Idea" (Berry 2002)
  - ▶ Knowledgeable on CS, SE, tech, math, etc.
  - ▶ Little domain knowledge

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Benefits of an "Educated Ignoramus"

- No tacit assumptions
- Asks questions
- Improved Bridge Corrosion project
  - ▶ Discovered calculation error related to unit conversion
  - ▶ No interpolation
  - ▶ Validate inputs
  - ▶ Change jurisdiction