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News, analysis and commentary on emerging technology, design and business trends within the global electronics industry to empower decision makers with actionable intelligence



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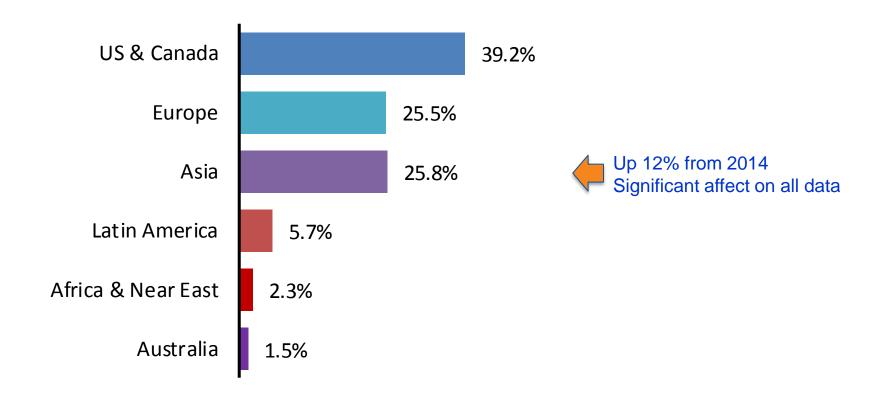


Purpose and Methodology

- Purpose: To profile the findings of the 2015 results of UBM Tech's annual comprehensive survey of the embedded systems markets worldwide. Findings include types of technology used, all aspects of the embedded development process, IoT emergence, tools used, work environment, applications, methods/ processes, operating systems used, reasons for using chips and technology, and brands and chips being considered by embedded developers.
 Many questions in this survey are trended over three to five years.
- **Methodology**: A web-based online survey instrument based on the previous year's survey was developed and implemented by independent research company Wilson Research Group from January 14, 2015 to March 31, 2015 by email invitation.
- **Sample:** E-mail invitations were sent to subscribers to UBM Tech Embedded Brands with reminder invitations sent later. Each invitation included a link to the survey.
- **Returns: 1,807** valid respondents for an <u>overall</u> confidence of 95% +/-2.29%. Confidence levels vary by question. As a guide, confidence for questions with:
 - 1807 respondents = 95% +/- 2.29% vs. 95% +/- 2.05% in 2014
 - 1050 respondents = 95% +/- 3.0%
 - 600 respondents = 95% +/- 4.0%
 - 400 respondents = 95% +/- 5.0%

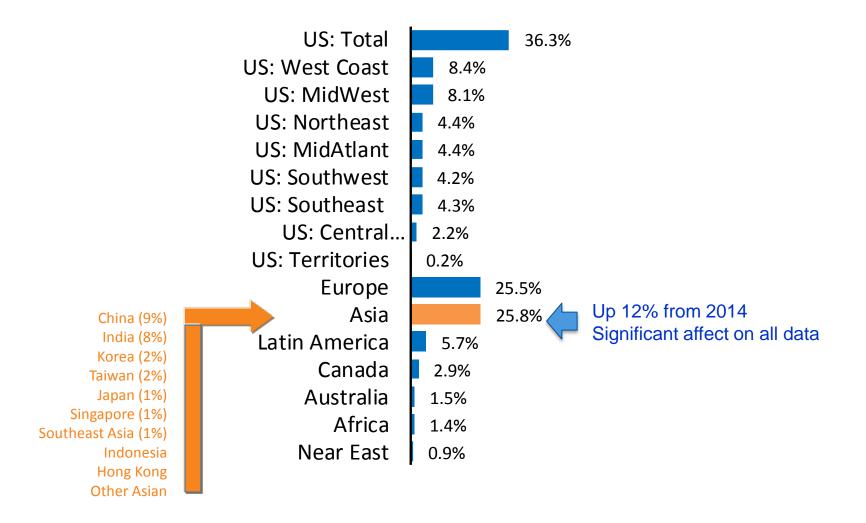


In which region of the world do you reside?



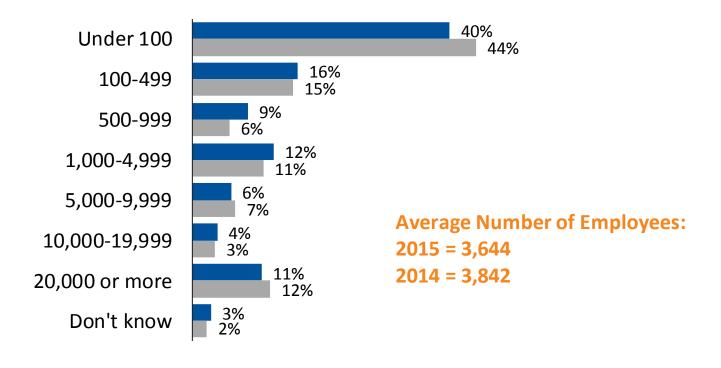


In which region of the world do you reside?



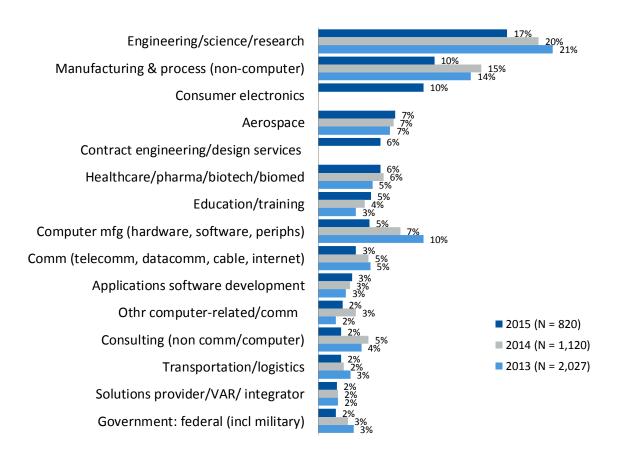


How many employees does your company have at all locations?



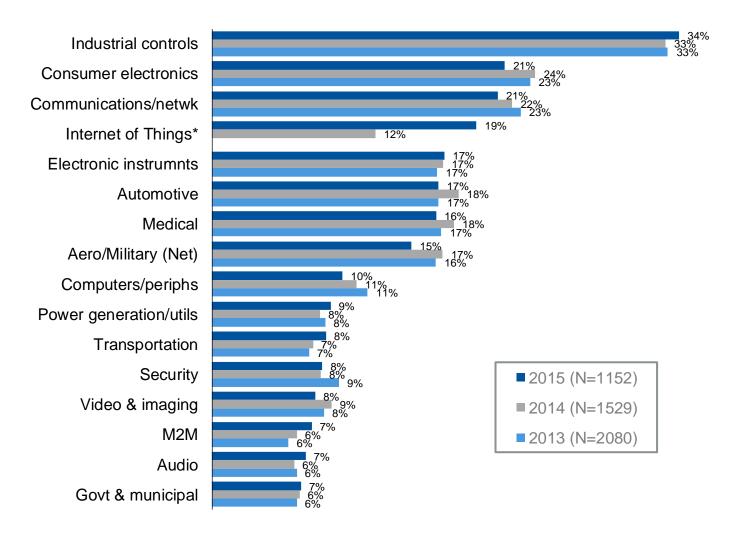


What is your organization's <u>primary</u> business activity?





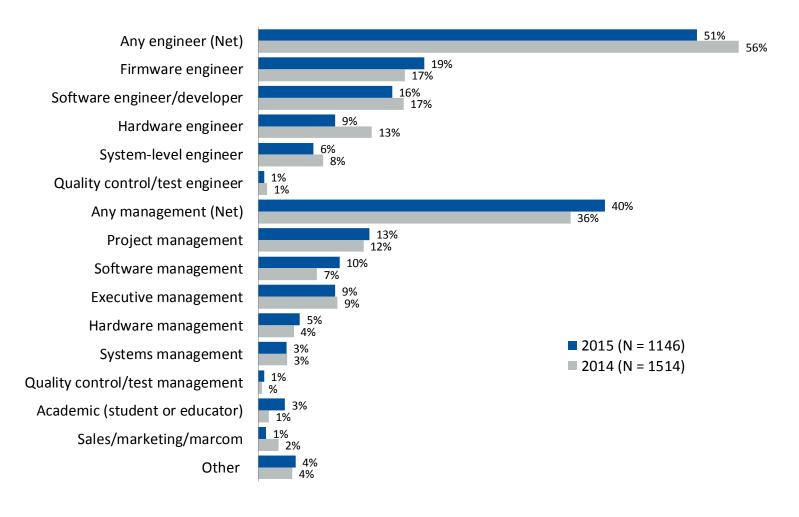
For what types of applications are your embedded projects developed?



^{*} Added in 2015



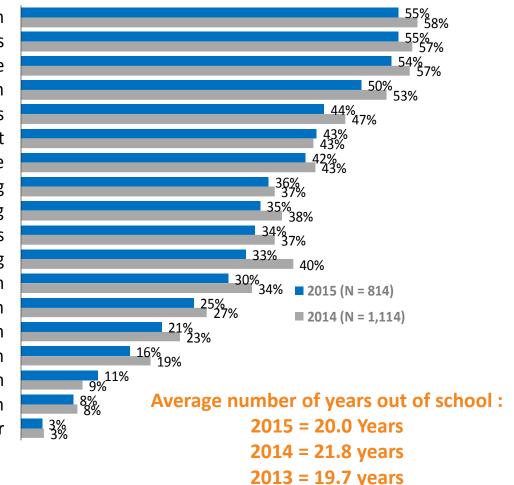
What role do you primarily play in your organization's embedded systems projects





Job Functions

Hardware/software integration Writing firmware/sftwr for embedded systems Debugging firmware/software Architecture selection/specification Firmware/software design or analysis Project management Debugging hardware Device programming Firmware/software testing Designing hardware for embedded systems Prototype testing System design Hardware/software co-design Board layout/design Hardware/software co-verification Connected device design SoC (system-on-chip) design Other





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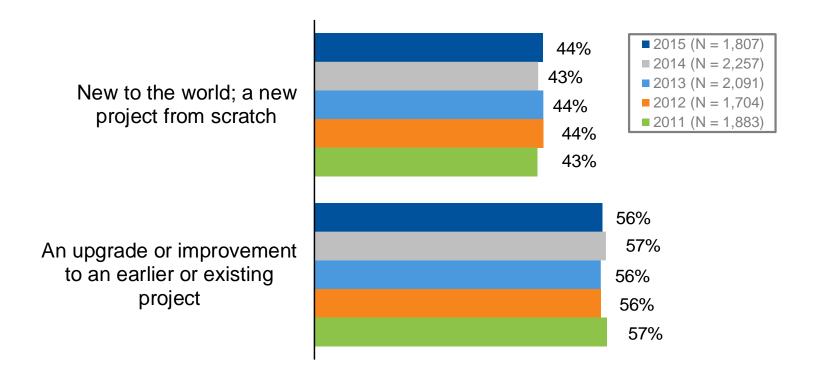




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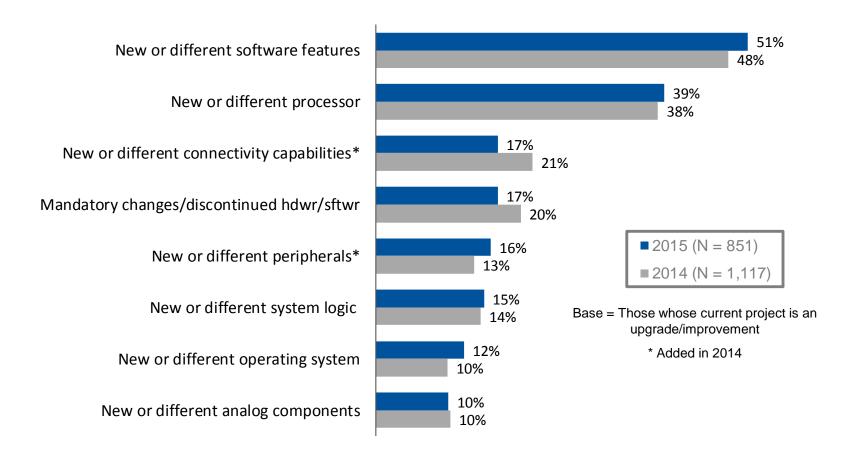


Current Embedded Project



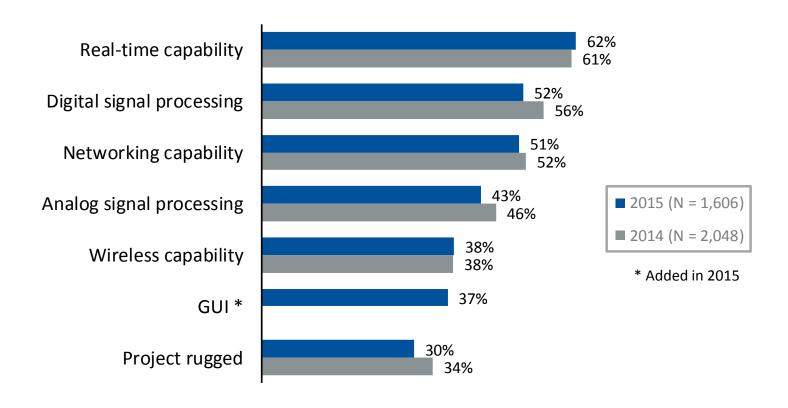


What does the upgrade or improvement include?



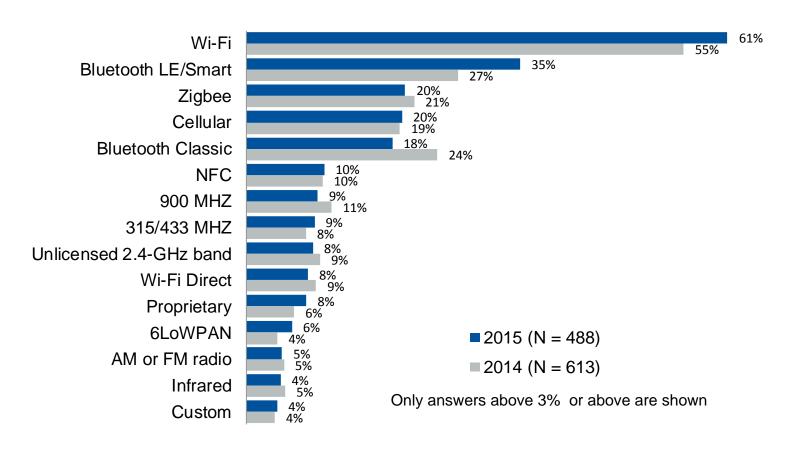


Which of the following capabilities are included in your current embedded project?





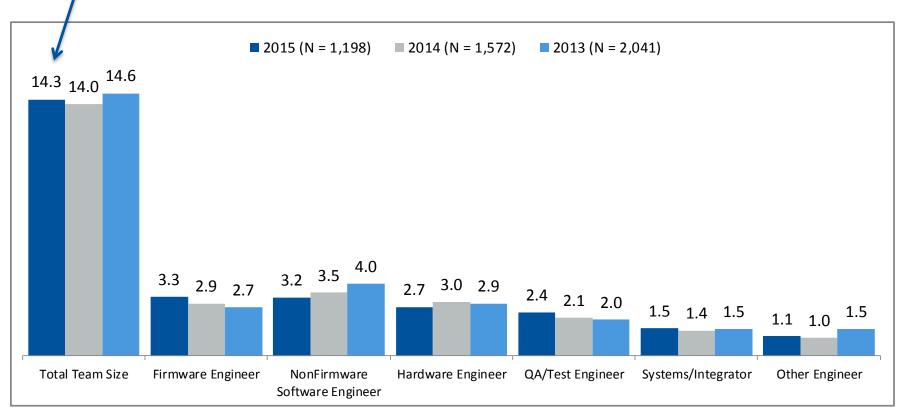
If wireless, what wireless interfaces does your current embedded project include?





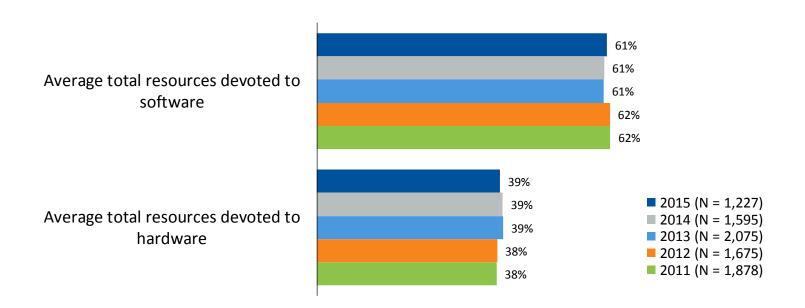
How many people are on your embedded project team?

Roughly, 14 engineers per team has remained stable for the last three years





What is your development team's ratio of total resources (including time/dollars/manpower) spent on software vs. hardware for your embedded projects?

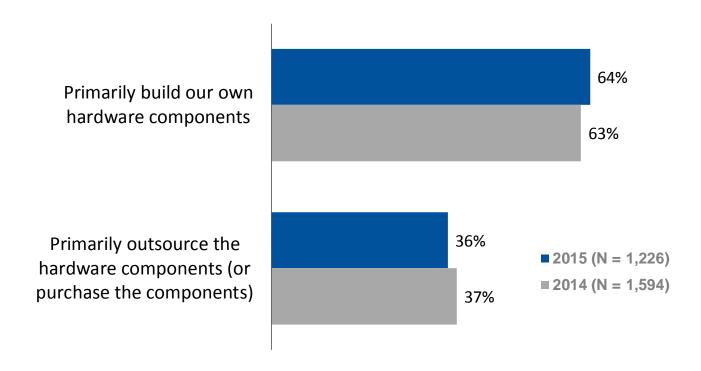


Note:

In 2015, respondents averaged working on 2.1 projects at the same time. In 2014, respondents averaged working on 2.0 projects at the same time.



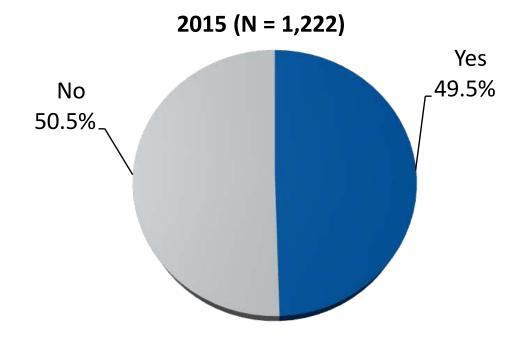
Do you primarily build your own hardware or do you primarily outsource your hardware requirements?





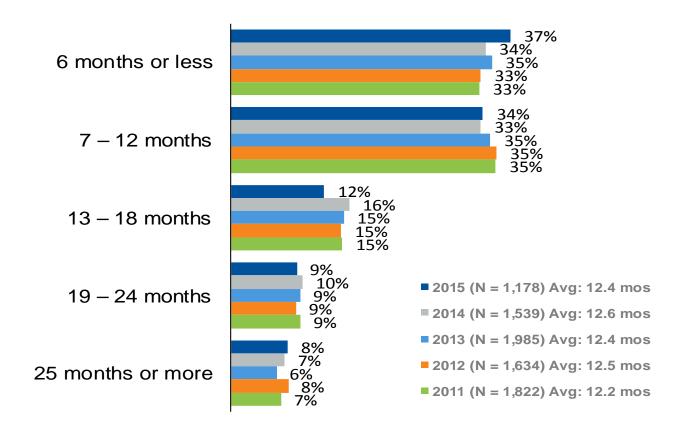
New in 2015

Did you start your current embedded design with a development board?



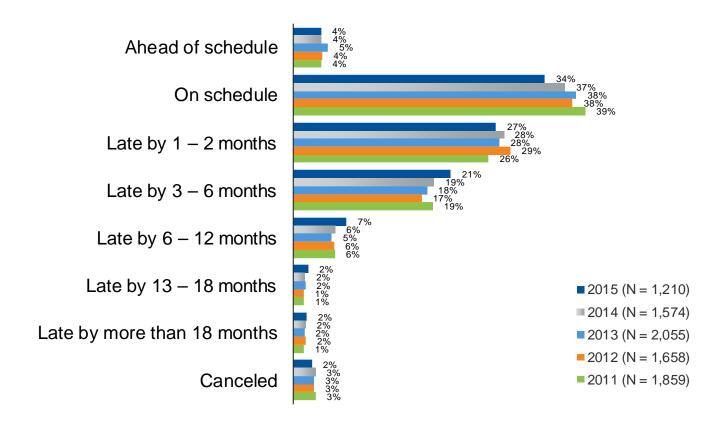


Thinking now about the last embedded project you completed (no longer in development), how many months did that project take to finish?





Was that project completed . . .



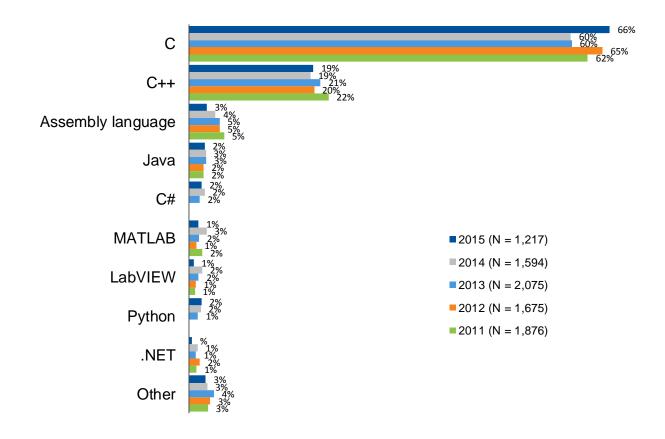
In 2015, 38% of all projects finished "<u>ahead of</u>" or "<u>on</u>" schedule, and 62% finished "<u>late or cancelled</u>".

In 2014, 41% of all projects finished "<u>ahead of</u>" or "<u>on</u>" schedule, and 59% finished "<u>late or cancelled</u>".

This downward trend in performance is <u>worse than the previous 4 years</u> that averaged 42%-44% "on/ahead of" schedule.

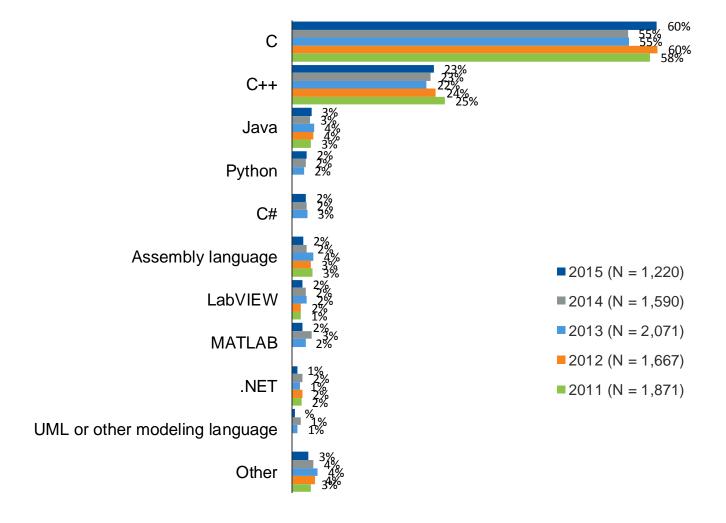


My <u>current</u> embedded project is programmed mostly in:



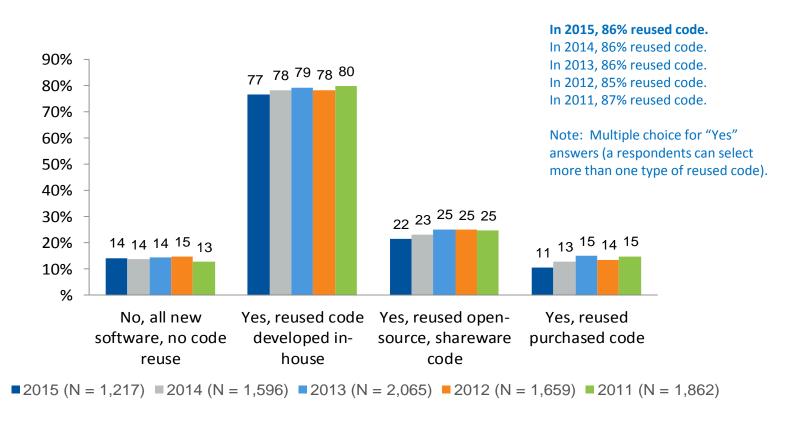


My next embedded project will likely be programmed mostly in:



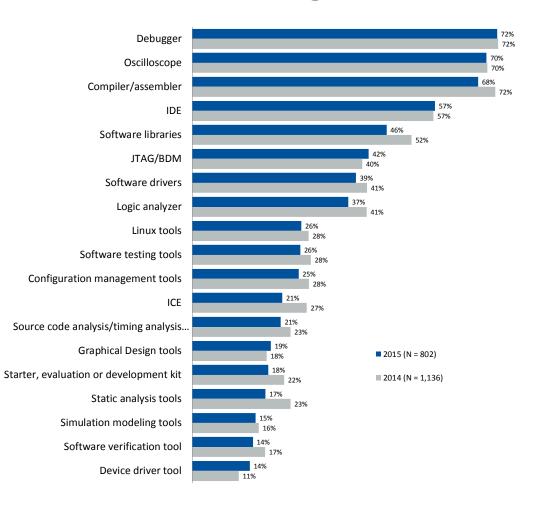


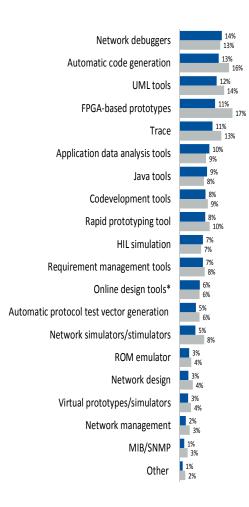
Does your current project reuse code from a previous embedded project?





Which of the following software/hardware tools do you currently use?







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EDN embedded

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