How to wake up from IDLE3 using INT0 on the C5517 low-power DSP
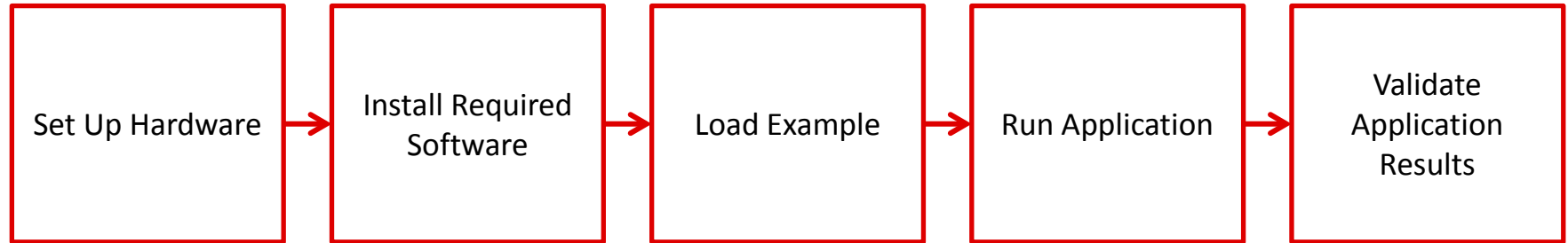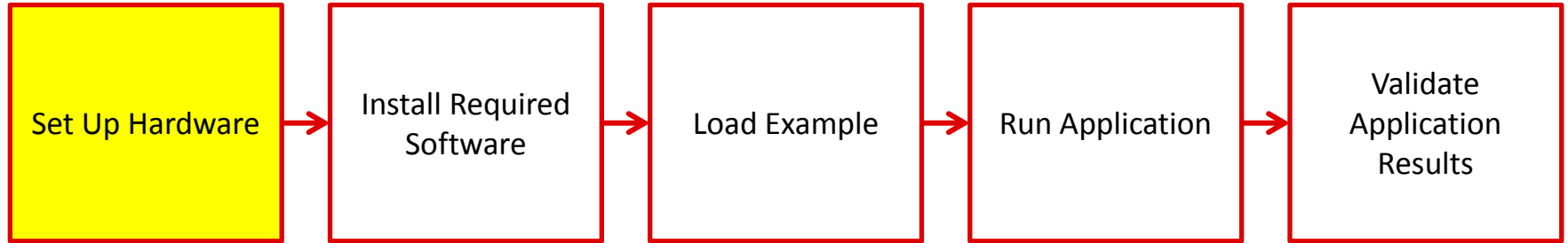
C5517 IDLE3 wakeup using INT0: Demonstration

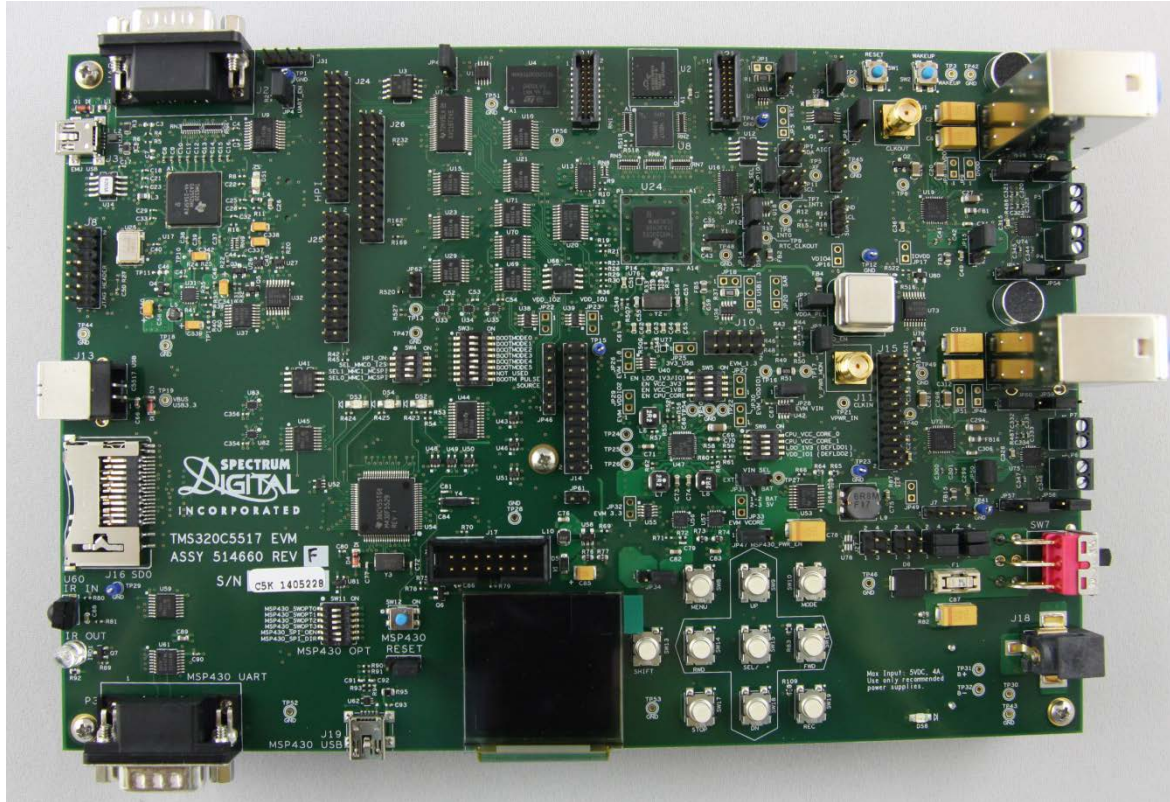| Set Up Hardware	→	Install Required Software	→	Load Example	→	Run Application	→	Validate Application Results

C5517 IDLE3 wakeup using INT0: Set up hardware

TEXAS INSTRUMENTS

C5517 Evaluation Module (EVM)
http://www.ti.com/tool/tmdsevm5517

C5517 IDLE3 wakeup using INT0: Install software
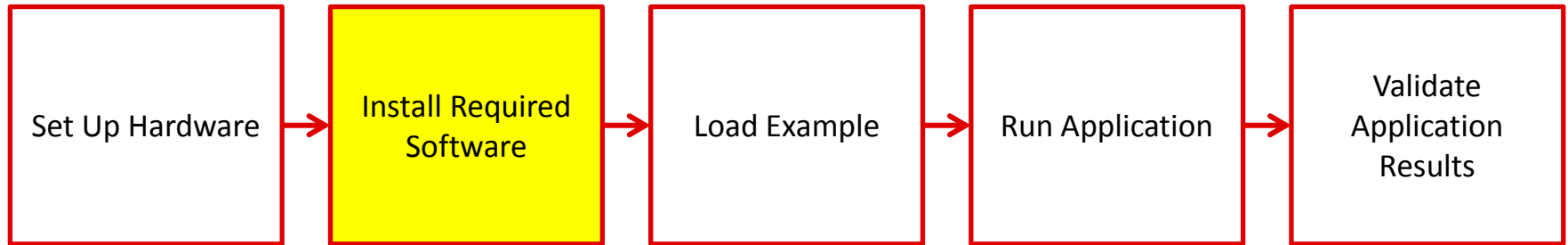
- Code Composer Studio: http://www.ti.com/tool/CCSTUDIO

- TMS320C55x Low Power Chip Support Libraries (CSL): http://www.ti.com/tool/sprc133

C5517 IDLE3 wakeup using INT0: Load software

```
┌──────────────┐   ┌──────────────┐   ┌──────────────┐   ┌──────────────┐   ┌──────────────┐
│              │   │  Install     │   │              │   │              │   │  Validate    │
│ Set Up       │ → │  Required    │ → │ Load Example │ → │ Run          │ → │  Application │
│ Hardware     │   │  Software    │   │              │   │ Application  │   │  Results     │
└──────────────┘   └──────────────┘   └──────────────┘   └──────────────┘   └──────────────┘
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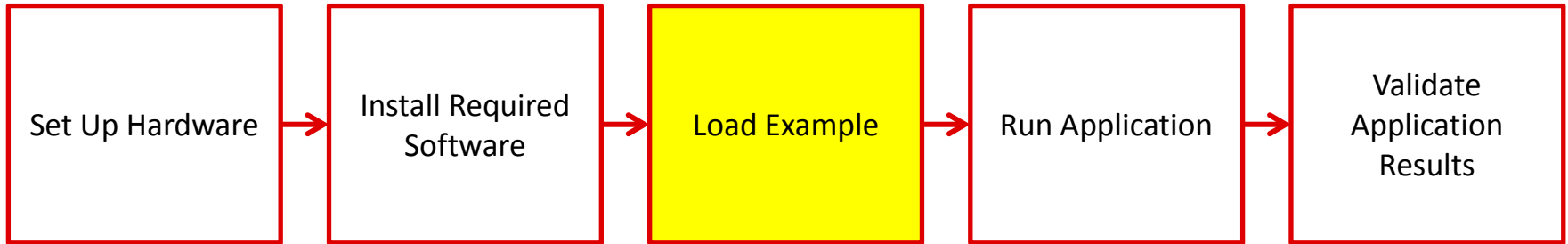
- CSL example: *\c55_csl_3.08\ccs_v6.x_examples\power\CSL_PowerManagement_IDLE3_Example*

- CSL power management patch file:
  - E2E thread: https://e2e.ti.com/support/processors/f/791/t/719189
  - Direct download: /cfs-file/__key/communityserver-discussions-components-files/791/2262.csl_5F00_power_5F00_management_5F00_idle3_5F00_example.c

C5517 IDLE3 wakeup using INT0: Run application

Set Up Hardware → Install Required Software → Load Example → **Run Application** → Validate Application Results
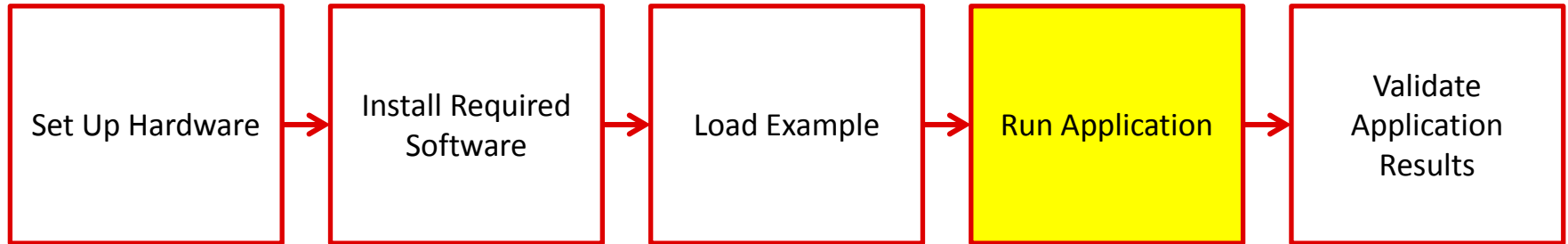
C5517 IDLE3 wakeup using INT0: Validate application results

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┌─────────────────┐    ┌─────────────────┐    ┌─────────────────┐    ┌─────────────────┐    ┌─────────────────┐
│                 │    │                 │    │                 │    │                 │    │    Validate     │
│ Set Up Hardware │ →  │ Install Required│ →  │  Load Example   │ →  │ Run Application │ →  │   Application   │
│                 │    │    Software     │    │                 │    │                 │    │     Results     │
└─────────────────┘    └─────────────────┘    └─────────────────┘    └─────────────────┘    └─────────────────┘
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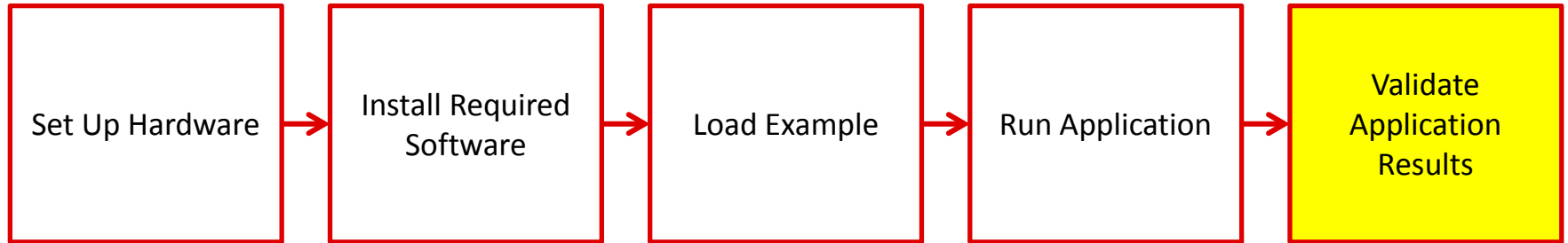
For more information

- C5000 low-power DSP product overview: http://www.ti.com/c55x

- C5517 Evaluation Module (EVM): http://www.ti.com/tool/tmdsevm5517

- TMS320C55x Chip Support Libraries (CSL): http://www.ti.com/tool/sprc133

- CSL power management patch file:
  - E2E thread: https://e2e.ti.com/support/processors/f/791/t/719189
  - Direct download: /cfs-file/__key/communityserver-discussions-components-files/791/2262.csl_5F00_power_5F00_management_5F00_idle3_5F00_example.c

- For questions about this training, refer to the E2E Community Forums at http://e2e.ti.com