Kit
1) EKK-LM3S1968 (list $55.31)
2) One Twin industries TW-E40-1020 solderless breadboard
   - Digikey: 438-1045-ND
   - Allied Electronics: 237-0015
   - Mouser: 589-TW-E40-1020 (list $7.11)
3) headers (soldered onto board so the combination fits into a solderless breadboard)
   - Samtec TSW-133-09-L-S-RE, $1.85 in small quantities
   - Samtec TSW-133-08-L-S-RA, $1.65 in small quantities
   or
   - Samtec TSW-133-09-F-S-RE, $1.59 in small quantities
   - Samtec TSW-133-08-F-S-RA, $1.42 in small quantities

Figure 2.9. Evaluation kit for the LM3S1968 microcontroller. The protoboard interface was built using Samtec TSW-133-09-L-S-RE, TSW-133-08-L-S-RA connectors.
Step 1. Plug the RA header into a breadboard

Step 2. Slip the EKK-LM3S1968 onto the RA header with the component side of the PCB being the same side as most of the RA header. Align the PCB so it fits into the center of the breadboard. The PCB should be 90 degrees from the breadboard.
Step 3. Solder the 33 pins of the RA header to the PCB.

Step 4. Remove the RA-PCB combination from the breadboard
Step 5. Insert the RE header on the other side from the RE header, and insert the combination into the breadboard. (The PCB should still be aligned into the center of the breadboard, and the PCB should still be 90 degrees from the breadboard, as achieved in step 2).

Step 6. Solder the 33 pins of the RE header to the PCB.

Step 7. Solder individual wires to +3.3V and +5V as needed. The length should allow the other end to plug into the protoboard. 22-gauge solid wire is ok, but a better solution is use stranded wire with a ½ inch piece of solid wire attached to the end.
Step 8. PRINT THIS PAGE AT 100% SCALE.

Step 9. Cut out this outline and place the paper between the pins and the protoboard (bold italics mean this pin has hardware connections on the board).

Only use the “backwards version if you reversed the board at step 2.