**Independent Innovation: Business at the Bleeding Edge** Dr. Bob Miller Trace Systems, Inc. drbob@tracesystemsinc.com www.tracesystemsinc.com

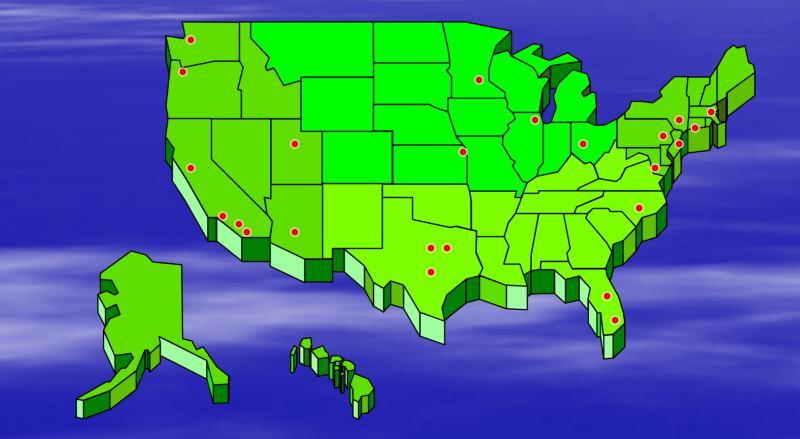
# Things You Can Do Right Now...

- Learn about business from the IEEE Consultants Network
- Talk to an Accountant, NOW
- Start collecting resources, NOW
- Think like a business, not like an employee
- Learn how to LISTEN
- Learn how to SELL
- Closing thoughts

# What Are the IEEE Consultant Networks?

- In recent years, about 25 Consultant Networks have formed across the US
- Local networks usually run an informal referral service, + meetings and events
- There is an umbrella organization, AICN, which
  - links the local networks,
  - publishes a national directory
  - runs 1-2 Workshops every year

# Where Are They Located?



Topics of Some of Our Meetings

- Finance 101 for Consultants
- Defining WHAT to Market
- Marketing and Sales Workshop
- What PRICE Am I Worth?
- The Ins and Outs of Consulting Contracts
  Avoiding Misunderstandings w/ Clients
  "Negotiating with the Elephant in the Bathtub"

#### Financial Issues Before Startup

- Get advice from an accountant ASAP!
- You don't have to put off buying equipment & software until you start your business.
   Just keep records
- Plan to subsidize yourself during first few years. Rules of thumb:
  - First year -- 100%
  - Second year -- 70%
  - Third year -- 20%

### Resources You Should Have: Lab

- Lab equipment can be bought used
  - Cheapest way is ham fests
  - Ads in Nut & Volts magazine
- Older computers (>386) may be OK for data acquisition
- If you haven't started your business yet, at least start accumulating test equipment
  - You can write this stuff off, even if you bought it years before

# Resources You Should Have: Library

- You won't have access to a good technical library anymore
- I developed a technical library long before I started my business
- Don't skimp here
- Some ways to reduce costs
  - Trade magazines are usually free
  - Data books and Application Notes
  - Local university

Re-Inventing Yourself If Necessary

- From "Narrowband" Employee to "Wideband" Consultant
  - Big company pushes you into narrow specialty, like tall narrow peak on spectrum analyzer
  - As independent business, you get to do EVERYTHING. Like many shorter peaks on spectrum analyzer.
- No substitute for continuous learning
  Look for "reverse cash flow" learning

# Think like a BUSINESS, not like an EMPLOYEE

- Realize that everything is negotiable
   Think CASH FLOW
- Think MARKETING, all the time
- Answer your business phone as a business
  - Make sure that your outgoing message on the answering machine makes it clear that they have reached your business, & that their call is important

#### Learn how to LISTEN

- You can usually tell if someone is new to consulting
- He's used to talking to people as if they were his technical cohorts at Universal MegaCorp Inc
- He tends to do more TALKING than listening
- He's more interested in *impressing* than helping

#### How to Be a Better Listener

- Concentrate on what they are telling you
- Repeat information they tell you, especially their needs and objectives
- Clarify it
- Restate or rephrase information
- Summarize it
- Tolerate thoughtful silences

# Learn the Difference Between FEATURES and BENEFITS

- Seems very difficult for us techies
- A Feature is some physical characteristic
   E.g., 300 MHz Pentium II
- A Benefit is a value that the customer will actually get from the feature, e.g.
  - More time to do other things ('cuz it runs fast)
  - Be the envy of the neighborhood, get more girls, etc.
- To us techies, the link between features & benefits is obvious, which is why we confuse the two

# Learn How To TALK TO CUSTOMERS

- Your customer may be horribly ignorant of technology
- Our potential customers need to hear BENEFITS first. The link to a feature needs to be explained

In fact, the customer may never care too much about specific technology issues, and may even feel <u>threatened</u> when you try to explain them!

# Why You Shouldn't (Always) Use a Resume

- Giving a resume implies that you (individually) are seeking a job
  - I.e., trying to become an EMPLOYEE
- Giving a brochure says that your <u>company</u> seeks to do business with their <u>company</u>
- Use a resume as a specialized tool
- If you have to use resumes, at least make one that sells
  - Think like a business now, not like an employee

# If You Must Use A Resume, Use One That <u>Sells</u>

- Use action verbs
- Show quantitative business effects of your accomplishments
- PSR Techniques:
  - Problem: situation before you came along
  - Solution: what you did to fix
  - Resolution: the good results of your fix
- VALUABLE EXERCISE: Think of a past success & express as PSR

# Use a <u>PORTFOLIO!</u>

- A nice-looking leather-bound notebook
- Pictures of your facilities, if applicable
- Pictures of stuff you've done in the past
  - Pictures from projects when you were an employee, before you started your business
  - Even pictures from technical hobby work
  - If you have some other talents, like writing or artistic skills, show samples of those, too
- Don't expect to show every page of your portfolio -- be selective

#### Your Web Site

- Can work for you 24 hours a day
- Use it to display pictures or samples of what you do
- Allow people to download a brochure
- I ask them to give me their name first

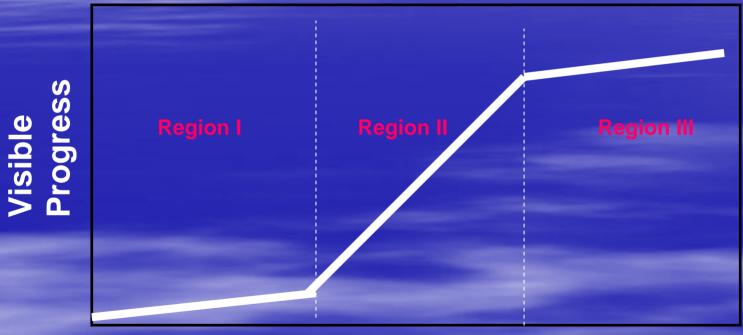
   This warns me that something is coming

   Search engines

# Advantages of Fusion Marketing

- Can offer a more complete set of services
- Two HEADS are better than one:
  - General advice & support
  - Support during client meetings
  - Debrief after client meetings
- Two MOUTHS are better than one
- Two PENS are better than one
- Four EYES are better than two
- You can get past the "Modesty Barrier:" SELL EACH OTHER!

# Why You Should Multiply by THREE: The Raines Curve



#### Time and \$

## **Closing the Sale**

Customers buy from people that: - They feel confident can do the job - They can afford - They LIKE When you've gotten the customer to say "Yes," then STOP SELLING ! Get them to sign an agreement

#### Royalties - 2

- The good news: royalties can help you "beat linear time"
- The bad news:
  - Royalties are deferred income
  - Have to fit in with cash-producing work
  - Higher risk -- may not get enough to pay for the time you spent

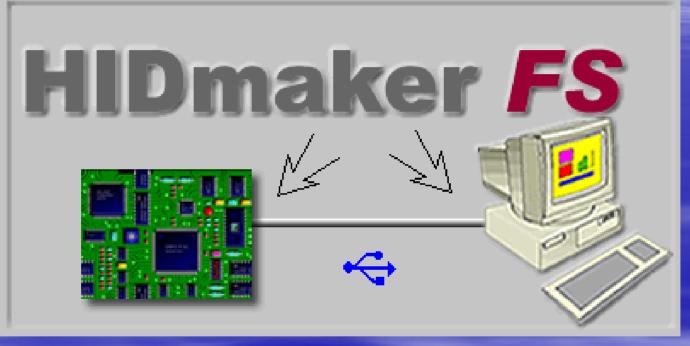
#### **Closing Recommendations**

- Join or set up a support group like IEEE Consultants Network
- Network a lot
- Remember to LISTEN to your customer's needs
- Use a portfolio of past work
   Try "Fusion Marketing" -- it really works!

#### **Closing Recommendations**

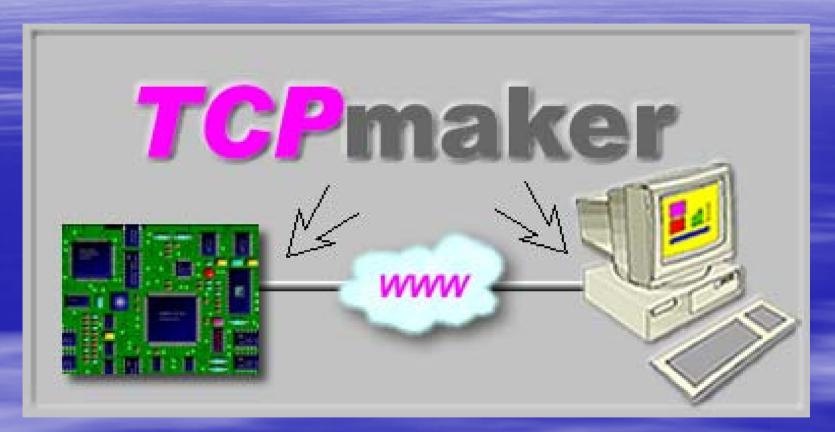
- Use defensive contract techniques, and protect yourself against unscrupulous clients with good Terms and Conditions
- Try to build up some royalty income
- To get more time for your family, level your load by calling Dr. Bob!

#### **Shameless Plug #1**



FULL SPEED It writes your USB Code!

#### Shameless Plug #2



Control your microprocessor device from any web browser!

## Shameless Plug #2 – Cont'd

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### **Final Thoughts**

- THERE ARE NO LIMITS: the only limits are imposed by YOU:
- If you think you can, OR, if you think you can't, you're probably right."

# Your Speaker: Dr. Bob Miller

#### <u>Complete Capability</u>:

- Great Software Tools for USB and Embedded Ethernet Devices
- Windows Software to Control Hardware
- Low Cost Product
   Development
- Prototyping / Test Lab
- Microprocessors

Trace Systems, Inc. Bowie, MD 20715 301-262-0300 V/F drbob@tracesystemsinc.com

We Give Your Product a Pleasant Personality and a VERY Pretty Face!